

MASTERPLAST
GROUP-INTERNATIONAL

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**WATER PROOFING AND
WATER DRAINAGE**

WATER EXCLUSION, WATER DRAINAGE

The structures of buildings are threatened by different forms of humidity and water: rainwater; vapour, damp and groundwater from the soil, and so-called utility or waste water depending on the function of the building. The harmful effects can be prevented by the proper shelter of the building parts exposed to humidity and the drainage of generated water from the structure. The two methods are really efficient when they are applied together, thus the water proofing and drainage systems have to be planned and implemented in harmony.

The most reliable materials out of the several methods for waterproofing against rainwater – where it is unexposed to permanent UV-radiation – are the bitumen waterproofing sheets or the light plastic (PVC) sheets, preferred for their easy applicability. Drainage of rain or snow from flat roofs can be ensured with appropriately formed sloping, solid pavements, as well as the associated eaves gutters constructed along the lines or outflow pipes. Waterproofing constructed on roofs must be heat-resistant, have to resist the mechanical effects deriving from the movements of the building structures and occurring during application, while water drainage systems have to be cleanable, aesthetic with the necessary water drainage capacity and appropriate slope. Further requirements for green roofs planted with vegetation may be the retention of rainwater and the root-resistance of the used materials.

In case of waterproofing of basement, bitumen sheets are used, due primarily to their loadability and durability. The form of installation may vary between horizontal and vertical constructions, so the corresponding water drainage techniques are also can be classified accordingly. Water drainage from vertical surfaces may be ensured with dimpled sheets, while the collection and draining of water spreading horizontally under the basement may be implemented with the application of dimpled sheets and drain-pipes. These systems must be protected against clogging up by small soil particles, while the water is drained away safely (e.g. on sloping terrains, in case of dammed-up seepage water). The materials used in the underground constructions must be rot- and root resistant and they have to proof against the attack by any of the minerals, acids and bacterial catabolic products that occurs in the natural soil.

Beside the protection against the above mentioned effects, waterproofing must be occasionally provided against utility or waste water. For this insulation - depending on the stress – can be used bitumen or plastic sheets and liquid bitumen waterproofing also.

MASTERPLAST products offer up-to-date and reliable alternatives for waterproofing and the supplementing surface or underground water drainage.

Icons



To be kept indoors, in a dry place, protected from rain



Frost hazard



Technical and Safety Data Sheet



To be protected from sun and radiating heat



Can be kept outdoors without restrictions



CE sign

SICOFOL PVC damp proof course

Sicofol damp proof course is applied horizontally as a sealing layer under the foundation wall to ensure that damp cannot penetrate the wall from below.

Material: 1.2 mm thick, soft PVC.

Lengthening is performed by 20 cm wide overlapping.



SICOFOL PVC damp proof course	Available	Code
175 mm	20 m/roll	0602-01750000
365 mm	20 m/roll	0602-03650000
500 mm	20 m/roll	0602-05000000



SICOFOL PVC damp proof and water proof sheets

Material: soft PVC with different thicknesses (0,5 – 1 – 1,2 – 1,5 mm).

Fields of application:

- Sicofol PVC 0,5 mm: as a sealing layer around doors, window frames.
- Sicofol PVC 1 mm: as damp proofing in cellars.
- Sicofol PVC 1,2 - 1,5 mm: as water proofing of garden ponds, swimmingpools, sprinkler tanks, cisterns, rainwater reservoirs.
- Sicofol PVC 1,5 mm: as water proofing of balconies, loggias, and root-resistant waterproofing of rainwater on green roofs.

Application: The sheets are laid without any fixing, but the joints must be sealed by hot-air welding. SICOFOL is applicable as water-proofing where it is not exposed to permanent UV radiation (sheltered by mechanical protection, e.g.: 1 mm thick SICOFOL semisolid protective layer, TERRAPLAST PLUS dimpled sheet or a geotextile layer). It is not compatible with bitumen and not allowed to apply together with polystyrene without installation of a protective and separating layer between them. In places exposed to UV radiation (e.g. at attics) the jointing of SICOFOL with other PVC-based but UV-proof waterproofing is possible.



SICOFOL PVC damp proof and water proof sheet	Available	Code
S 0,5 mm	1.5 m×20 m	603-05151
S 1,0 mm	1.5 m×20 m	603-10150
S 1,2 mm	1.5 m×20 m	603-12150
S 1,5 mm	1.5 m×20 m	603-15150

ONLY FOR ORDER!



SICOFOL semisolid protective layer

Material: 1 mm thick semisolid PVC sheet made of recycled PVC.

Application: mechanical protection of SICOFOL PVC damp proof and water proof sheets.



SICOFOL semisolid protective layer	Available	Code
SK 1,0 mm	1,5 m×20 m	0603-SK100000

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Waterproofing with MASTERBIT bitumen sheets

MASTERBIT sheets belong to the group of the most common used bitumen water proofing materials, made of oxidized or APP-modified plastomer bitumen, with non-woven glassveil reinforcement. The plastomer-bitumen sheets due to the favourable properties of the modifying material are applicable in a wider temperature range than oxidized bitumen sheets, and thus are especially recommended for summer construction. Finishing of the sheet is fine mineral sanding or gray slate granules upperside and PE foil underside, which functions as a separating layer and preventing the rolled sheets from sticking together. The adhesion and waterproof function of Masterbit products are ensured by torch-welding of the total surface area and the overlaps.

Fields of application: MASTERBIT 03GV, 04GV: Applied on surfaces exposed to moderate mechanical and heat load and stress (class II/B)* - that means the damp proof of concrete floor slab, base and cellar walls, as well as the protection of the building structures against utility or waste water. They are also applicable as underlayer or intermediate layer of waterproofing system with heavy surface protection or in inverted flat roofs sheltered by thermal insulation, but it is not allowed to install on places exposed to direct UV radiation. The sheets are not root-resistant.

Application of MASTERBIT waterproofing sheets

Underground insulation	03GV	04GV
Vapour proofing on horizontal surfaces	1 layer	1 layer
Damp proofing on horizontal surfaces	2 layers	1 layer
Damp proofing on vertical surfaces	2 layers *	1 layer *
Damp proofing under walls in case of normal load (e.g. detached house)	2 layers	1 layer
Damp proofing under walls in case of intense load (multi-storey house)	2 layers	1 layer
Flat roof waterproofing (e.g. on stable concrete slab)	03GV	04GV
Under- or intermediate layer in case of light heat-load	Recommended	Recommended
Top layer in case of light heat-load	Not recommended!	Recommended
Under- or intermediate layer in case of moderate heat-load	Recommended	Recommended
Top layer in case of moderate heat-load	Not recommended!	Not recommended!
Under- or intermediate layer in extensive green roofs (5-15 cm soil covering)	Recommended	Recommended
Top layer in extensive green roofs (5-15 cm soil covering)	Not recommended!	Not recommended!
Under- or intermediate layer in green roofs (under 15-25 cm soil covering)	Recommended	Recommended
Top layer in green roofs (under 15-25 cm soil covering)	Not recommended!	Not recommended!
Under- or intermediate layer in intensive green roofs (>30cm soil covering)	Recommended	Recommended
Top layer in intensive green roofs (>30cm soil covering)	Not recommended!	Recommended
Underlayer of bitumen shingle laid on pitched roofs	Not recommended!	Not recommended!
Top layer in flat roof waterproofing	VM40	PRO PM4
Top layer of a waterproofing system on reinforced concrete slab (covered surface < 50m ²)	Recommended	Recommended
Top layer of a waterproofing system on reinforced concrete slab (covered surface > 50m ²)	Not recommended!	Recommended
Top layer of the vertical part of the attic	Not recommended!	Not recommended!

*=With mechanical protection (brick wall, XPS boards or Terra Plast dimpled sheet with the dimples to the soil and sliding PE foil layer).

MASTERBIT VM40 and PRO PM4

These sheets are applied as top layer of waterproofing systems, exposed to direct UV radiation due to their gray slate granules covering upperside. Both products are made of APP-modified bitumen, but VM 40 has non-woven glassveil carrier, PM4 is manufactured with non-woven polyesterfabric. During installation of these products, the relevant standard and guidelines must be kept.

Base surface: MASTERBIT waterproof sheets can be installed onto horizontal and vertical bases as well. The surface has to be smooth, free of dust, unbound particles, sharp edges, grease and frost.

Priming: Bituminous priming solutions designed to seal and prepare surfaces for the application of bituminous waterproofing sheets. The primer can be water based (MASTERBIT PRIMER WBP, used over (+) 5 °C) or solvent based (MASTERBIT Primer SP, used over 0 °C) and must be applied evenly with a brush or roll. Waterproofing can be started only after the total drying of the primer. The primer is also suitable for temporary waterproofing. The priming coat has to be prepared under dry weather circumstances for the proper drying.

Installation: The sheets are welded onto the underground with an overlap of minimum 10cm along the long edges and minimum 15cm in the transversal direction. Sheets can be laid in any preferred direction on horizontal surfaces, but only in vertical stretches on vertical surfaces. The membranes are affixed in the direction of the water run-off. The soft flame of the asphalt burner during welding process shall be directed ~2/3 of the time on the roll itself and 1/3 of the time on the underground, in such a manner, that for the roll there is a constant presence of bitumen with a half-sheet-wide displacement, without any blisters. In order to achieve a proper joint connection, it is necessary that at the overlapping there is a continuous flow of bitumen.



03GV and 04GV oxidized bitumen sheets



Technical data:

	MASTERBIT 03 GV	MASTERBIT 04 GV
Thickness:	3 mm ±10%	4 mm ±10%
Weight:	3400 g/m ² ±200g	4600 g/m ² ±230g
Material of reinforcement:	Non-woven glass veil	
Type if bitumen:	oxidized	
Surface protection, lowerside/upperside:	PE foil/fine mineral sanding	
Width:	100 cm ±1%	
Length:	10 fm ±1%	
Cold bending capacity:	+5 °C	
Heat resistance:	+80 °C	

	Available	Code
MASTERBIT 03 GV	24 roll/pallett	0612-03010000
MASTERBIT 04 GV	15 roll/pallett	0612-04010000





PRO VM40 Modified bituminous membranes with mineral slates, glass veil

UV-resistant top layer of waterproofing systems.

Material: Non-woven glassveil carrier with APP modified bitumen covered with fine gray slate granules upperside and PE foil underside

Fields of application: Intended to be used on smaller, reinforced concrete slab surfaces - exposed to moderate mechanical- and heat load and stress - as a top layer.

Technical data:

Weight: 4000 g/m² ±10%

Material of reinforcement: Non-woven glass veil

Type of bitumen: APP-modified

Surface protection below/above: PE foil/gray slate granules

Width: 100 cm ±1%

Length: 10,0 running metres ±1%

Flexibility at low temperature: 0 °C

Flow resistance at elevated temperature: +100 °C



PRO PM4 Modified bitumi- nous membranes with mineral slates, with PES reinforcement

UV-resistant top layer of waterproofing systems.

Material: Non-woven polyesterfabric carrier with APP modified bitumen covered with fine gray slate granules upperside and PE foil underside

Fields of application: Intended to be used on bigger, reinforced concrete slab surfaces - exposed to higher mechanical- and heat load and stress - and also at the vertical part of the attics as a top layer.

Technical data:

Thickness: 4 mm ± 10%

Material of reinforcement: Non-woven polyesterfabric

Type of bitumen: APP-modified

Surface protection below/above: PE foil/gray slate granules

Width: 100 cm ± 1%

Length: 7,5 running metres ± 1%

Flexibility at low temperature: -5 °C

Flow resistance at elevated temperature: +120 °C



	Available	Article number
MASTERBIT PRO VM40	25 roll/pallett	0612 – 04P10000

	Available	Article number
MASTERBIT PRO PM4	25 roll/pallett	0613 – 04P75000



PRIMER WBP water-based bituminous primer

Designed to seal and prepare surfaces for the application of bituminous waterproofing sheets. Dilution of the primer is not necessary, but it is possible with maximum 30% water. Ambient and product temperature must be minimum (+)5°C during application.

Covering: On concrete, plaster and brick surfaces: 0.2–0.4 l/m² (depending on the surface)

Precautions during application: Proper ventilation must be ensured during application in closed spaces. It has an alkaline effect, thus direct contact with eyes and skin must be avoided. Wearing of safety gloves, closed protective clothing and safety goggles (when spray gun used for priming) is recommended.

Storage, expiry date: The product has to be handled, transported and stored according to the rules prescribed for the material. It has to be protected from direct sunlight and frost. Storing temperature is between (+) 5 °C and (+) 35 °C. In case of the prescribed storage and handling conditions, the expiry date of the product is 6 month after production.

Packaging: 10 kg



	Code
MASTERBIT PRIMER WBP water-based bituminous primer	0611-00015000



PRIMER SP solvent-based bituminous primer

Designed to seal and prepare surfaces for the application of bituminous waterproofing sheets. Dilution of the primer is not necessary in case of normal ambient temperature.

Covering: On concrete, plaster and brick surfaces: 0,2 l/m² (depending on the surface)

Precautions during application: The material is highly inflammable, thus during storing and application the necessary safety precautions must be kept. In closed spaces using of Masterbit Primer WBP is recommended.

It has a strong ammoniac smell and an alkaline effect, thus direct contact with eyes and skin must be avoided. Wearing of safety gloves, closed protective clothing and safety goggles (when spray gun used for priming) is recommended.

Storage, expiry date: The product has to be handled, transported and stored according to the rules prescribed for the material. It has to be protected from direct sunlight and ignition source. In case of the prescribed storage and handling conditions, the expiry date of the product is 6 month after production. Storing temperature is between (+) 5 °C and (+) 35 °C.

Packaging: 10 kg



	Code
MASTERBIT PRIMER SP solvent-based bituminous primer	0611-00010000



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LF solvent free bituminous coating

Material: flexible, liquid bitumen mass with additives, with high heat- and UV-resistance.

Fields of application:

- for maintenance and refurbishment of bituminous roofs without dilution. It increases the life span and the watertightness of the material coated. Coverage: 0.8–1.2 litre/m²/layer.
- as a temporary water-repellent coating of pitched flat roofs. Coverage: 0.8–1.2 litres/m²/layer (after priming). Applied in just one layer, it significantly increases the draining capacity of the pitched concrete surface.
- diluted with tap water (in proportion 1:2), it can be used as a primer.
Coverage: 0.2 – 0.3 litres/m².

Application: Drying time is (approximately) 2–6 hours as a primer, 6–12 hours as a coating (depending on the humidity of the underground and on the weather conditions).

Applying is by brush or roller.

Ambient and product temperature must be:

horizontally: between (+) 5 – (+) 35 °C

vertically: between (+) 5 – (+) 30 °C

Storage: under dry conditions, protected against atmospheric exposure, especially sun-radiation and other heat sources
In case of the prescribed storage and handling conditions, the expiry date of the product is 6 month after production

Packaging: 5 and 25 litres



	Code
5 litres	0699-00005000
25 litres	0699-00025000



1K bituminous waterproof coating

Material: one component plastic bitumen mass with polystyrene additive and high bonding ability.

Fields of application:

- as damp proof (for primed base surface): applied in two layers with wet thickness of ~4.5 – 5.5 mm (after drying: ~3.1–4.0mm) with additional mechanical protection. Coverage: 4.4–5.5 litres/m².
- for fixing of XPS boards: bonding of the XPS boards onto the bitumen sheet of cellar or basement wall. Coverage: 2 litres/m².
- for repairing of defects and around penetrations of damp proofing.

Application: Drying time is (approximately) 1–2 days / layer. Applying is by trowel.

Ambient and product temperature must be between (+) 5 – (+) 35 °C.

Storage: under dry conditions, protected against atmospheric exposure, especially sun-radiation and other heat sources. In case of the prescribed storage and handling conditions, the expiry date of the product is 6 month after production

Packaging: 32 litres



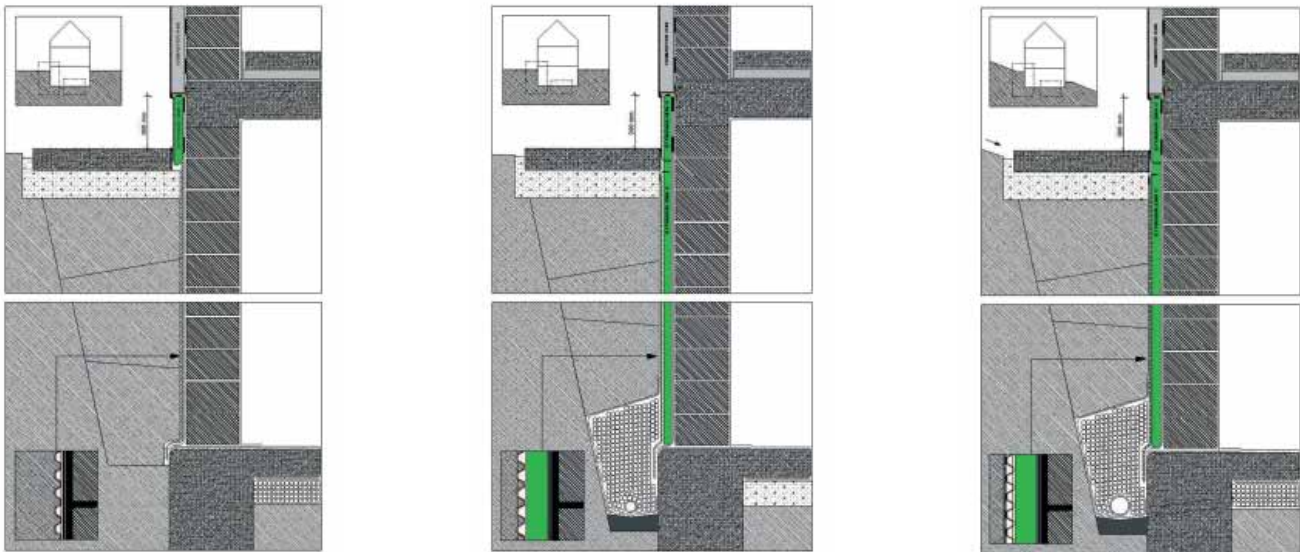
	Code
32 litres	0699-10132000





TERRAPLAST® PLUS drainage sheet system serves for the vertical or horizontal draining of surface rainwater or underground water, supplementing the insulation of the affected building structures, occasionally performing the mechanical, chemical and biological protection of those. Average building construction technologies and special engineering facilities (e.g. tunnels, deep-level garages, etc.) can have equally important structures. The products are applicable for protecting the insulation of cellar and base walls, for the dewatering of cellar walls in the case of stratum or dammed-up waters (for hydrostatic decompression), as the root-protection and water-bearing layer of green roofs, and placed as a sanitary layer under reinforced bases as instead of a blinding layer. When installed horizontally under base sheet, it protects against radon gas radiation coming from the soil, and to a limited extent it can function as insulation against soil vapour or ground humidity. When installing beside the bases or cellar walls of badly insulated old buildings, with appropriately supplied airing holes, it decreases the moistening of the wall and ensures wall airing. For terraces, it can be applied as a sliding-separating layer, when installed in the layers of terrace roofs, it compensates vapour pressure. TERRAPLAST® PLUS sheets are manufactured from high-density (HDPE), and due to their material they have high compression strength and tensile strength, are impact resistant, crash-proof, root-resistant, decay-resistant, and do not pollute underground waters. Resists the chemical effects in the ground, that is, fungi and bacteria. They increase safety, and are a cheaper and quicker solution than any wall protecting insulation, can be installed easily and fast, when applied as a sanitary layer, the blinding concrete can be left out completely.

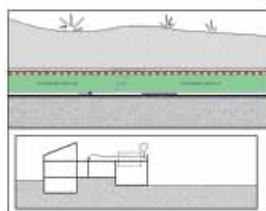
Application possibilities:



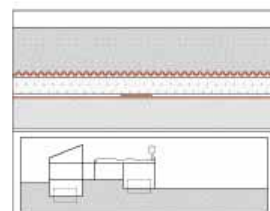
On flat terrains, with buttons outward, it is the protective layer of the spread water exclusion of cellar walls without heat insulation (instead of brick wall protecting insulation).

On flat terrains, with buttons inward it is the protective layer of base or cellar wall sheet insulations against ground humidity (instead of brick wall protecting insulation).

On sloping terrains, with buttons outward and with geotextile, for the absorption and diversion of the hydrostatic pressure of stratum or dammed-up water.



On roofs with vegetation, as a root-protection and water bearing layer.



Instead of blinding concrete for sanitary layer under reinforced base sheet.



PLUS S8 HDPE dimpled sheet

Unit weight	g/m ²	550±5%
Height of dimples	mm	8
Compression strength	kN/m ²	250
Air volume between the dimples	l/m ²	~5.5

TERRAPLAST® PLUS S8	Available	Code
1 m	1.0 m×20 m	0604-08010000
1.5 m	1.5 m×20 m	0604-08015000
2 m	2.0 m×20 m	0604-08020000
2.5 m	2.5 m×20 m	0604-08025000



PLUS L8 HDPE dimpled sheet

Unit weight	g/m ²	420±5%
Height of dimples	mm	8
Compression strength	kN/m ²	170
Air volume between the dimples	l/m ²	~5.5

This product is similar to TERRAPLAST® PLUS S8 HDPE dimpled sheet with reduced compression strength. Due to the smaller loadability, it can be used up to maximum 4m depth at vertical installation.

TERRAPLAST® PLUS L8	Available	Code
1 m	1.0 m×20 m	0604-08L10000
1.5 m	1.5 m×20 m	0604-08L15000
2 m	2.0 m×20 m	0604-08L20000
2.5 m	2.5 m×20 m	0604-08L25000

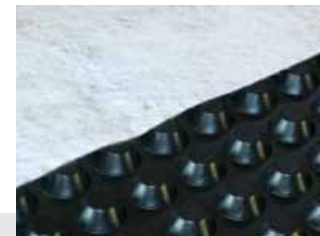


PLUS GEO HDPE dimpled sheet with non-woven polypropylen filter layer lamination

Unit weight	g/m ²	700±5%
Height of the dimples	mm	8
Compression strength	kN/m ²	250
Air volume between the dimples	l/m ²	~5.5

Draining of the water is performed between the dimples of the HDPE sheet and the PP filter layer. It is able to divert dammed-up water further (1–2 m) from the building as well. It can also be used for the sinking of ground water level (e.g. horizontally installed under the surface of fields), used together with a proper drain pipe.

TERRAPLAST® PLUS GEO	Available	Code
2 m	2 m×15 m	0604-08G20000





PLUS S20 HDPE dimpled sheet



Unit weight	g/m ²	1000±5%
Height of dimples	mm	20
Compression strength	kN/m ²	180
Air volume between the dimples	l/m ²	~14

Due to the 20 mm-high dimples, it enables to drain a large quantity of groundwater, especially in civil-engineering and underground tunnel constructions. Applied onto shotcrete or curtain walls, it protects waterproof, reinforced concrete walls against seepage water during construction, and then keeps it away for a long-time.



	Available	Code
TERRAPLAST® PLUS S20	1.9 m × 20 m	0606-20019000



PLUS S20P “PERFORATED” HDPE dimpled sheet



Unit weight	g/m ²	1000±5%
Height of dimples	mm	20
Compression strength	kN/m ²	180
Air volume between the dimples	l/m ²	~14

Water draining and water retaining layer for green roofs with vegetation, while also serving for the protection of the non-root-resistant waterproofing layer.



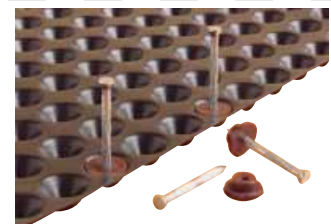
	Available	Code
TERRAPLAST® PLUS S20P	1.9 m × 20 m	0606-20P19000



PLUS-AC fastening nail and button



Serves for the fastening of the vertically installed TERRAPLAST PLUS dimpled sheets with 8mm high dimples. Consists of a steel fastening nail and a perforated plastic button. This button fits into the dimples of the plate, thus the nail fastens the sheet without tearing or destruction. Fixing of the sheets is allowed only over the level of the waterproofing, minimum 5 cm far from the upper edge and 20 cm from one another.



	Available	Code
TERRAPLAST® PLUS-AC fastening nail and button	100 pc nails and buttons/box	0605-200F0000



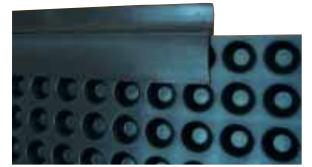
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PLUS-AC edge sealing strip

The sealing strip prevents the soil to get into the gap between the dimpled sheet and the waterproofing. Made of HDPE, fixed along the upper edge of the Terraplast Plus sheet. A further role of its to channel the majority of the water flowing down onto the outer surface of the sheet.

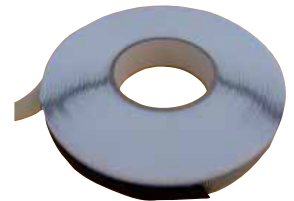


	Available	Code
TERRAPLAST® PLUS edge sealing strip	2 m/pc	0605-10020000



PLUS-AC Bituband

A self-adhesive sealing strip for the watertight overlapping and joints of the sheets



	Available	Code
TERRAPLAST® PLUS-AC butyl sealing band	19 mm×30 m/roll	0605-30030000



Rules of installation:

TERRAPLAST® PLUS S8 dimpled sheets have to be lengthened by 20 cm wide, simple overlappings both horizontally and vertically. In case of vertical application, fixing of the sheets is allowed only over the level of the waterproofing, minimum 5 cm far from the upper edge of the sheet and 20 cm from one another. The sealing strip prevents the soil to get into the gap between the dimpled sheet and the waterproofing. Terraplast Plus S20P knobbed roll are used in flat green roofs. The waterproofing and heat insulation of the structure are followed by the rolling out of the dimpled sheet roll with dimples downwards and covered with geotextile. The dimples retain sufficient water for plant growing – even under dry weather conditions, while excess water is drained away through the perforation and the waterproofing.

TERRAPLAST® PLUS related materials: PP filtering and separating layer (e.g. TYVEK PRO 125) with high tensile strength and small elongation, geotextile, TERRAPLAST® DRAIN-AC perforated drain pipe, extruded Polystyrene (e.g. STYRODUR 2500 C, STYRODUR 3035 CS) thermal insulation.

TERRAPLAST DRAIN-AC

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Material: yellow PVC or black LPE drain pipe

Application: Perforated flexible plastic drain pipes for collecting and draining underground waters collected by TERRAPLAST® PLUS dimpled sheets or other draining products (e.g. shape-foamed XPS thermal insulations with filter layer lamination). The PVC drain pipe is sensitive to extensive UV radiation, easily breaks in cold weather. The black LPE drain pipe has better mechanical properties and UV-resistance. During installation, it has to be laid minimum 20 cm below the TERRAPLAST® PLUS sheet, onto a lean-concrete sub-base with a gradient of 2% embedded into graded gravel and surrounded by filtering geotextile. Both type of drain pipes are available with factory-made geotextile lamination as well (TERFIL Drain), but the pipe is not UV resistant even then.



	Available	Code
TERRAPLAST® DRAIN-AC PVC (yellow) perf. 50 mm	250 m/roll	0609-11005000
TERRAPLAST® DRAIN-AC PVC (yellow) perf. 100 mm	100 m/roll	0609-11010000
TERRAPLAST® DRAIN-AC LPE (black) perf. 80 mm	100 m/roll	0609-12008000
*TERRAPLAST® DRAIN-AC T-PVC (yellow) terf. 50 mm	250 m/roll	0609-21005000
*TERRAPLAST® DRAIN-AC T-PVC (yellow) terf. 100 mm	100 m/roll	0609-21010000
*TERRAPLAST® DRAIN-AC T-LPE (black) terf. 80 mm	100 m/roll	0609-22008000



*ONLY FOR ORDER

TERRAPLAST TOP drainage channel

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Material: channel made of HDPE, the covering grid made of galvanized steel

The drainage channel body is resistant to acids, alkalis and chemicals, it is easy to build in, and the 1m-long-elements can be precisely joined together. The bodies can be cut to the proper size, it is made of light but shockproof HDPE and easy to clean. The grid covering is easily removable with the help of a screwdriver.

Fields of application: collection and conveyance of surface water when installed within areas subjected to pedestrian and moderate* vehicular traffic. It also can be installed in front of sunk garages doors (under the level of ground approached with ramp) or in front of terrace doors.

(* = 4-5 times/day, overdriving speed is maximum 10 km/h, e.g. in family houses.)

Parts of the system: HDPE channel body (1 m long) with galvanized steel covering grid, plastic endcap (2 pieces) and plastic outlet (Ø110 mm) for jointing waterpipe.



	Article number
TERRAPLAST® TOP channel with grid	0610-81001000
TERRAPLAST® TOP supplementary set	0610-82001000



TERRAPLAST GEOTEX

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Material: Needle-punched, non-woven Polypropylene (PP)

Intended to use to fulfil one or more of the following functions: filtration, separation and drainage in ground works. It is rot-proof and root-resistant, with good mechanical properties

Application: With the proper mechanical and drainage properties: in the construction of roads and other trafficked areas; railways; earthworks, foundations and retaining structures; drainage structures; external erosion control system; construction of reservoirs and dams; construction of canals; solid waste disposals and in liquid waste containments projects: filtration and separation (F+S, see: standards, specifications). To be covered within 1 month after installation! Predicted to be durable for a minimum of 25 years in natural soils with 4<pH<9 and soil temperatures <25 °C.



In building construction, it serves for the mechanical protection of bitumen sheets or as a separating layer of non-compatible building materials (e.g. polystyrene thermal insulation and soft PVC water proof sheet).

	Available	Code
TERRAPLAST® GEOTEX	1,5 mx50 m	0607-13000000



Other dimensions available on request!

TYPAR® PRO 125

Material: Typar PRO 125 is a thin, thermally bonded, water-permeable nonwoven geotextile made of 100% continuous Polypropylene filaments. It is designed to have a combination of a high initial modulus (stiffness), high elongation (typically >50%) and outstanding uniformity to make it resistant to damage and to have excellent filtration properties. It is resistant to rotting, moisture and chemical attack, particularly alkalis. Predicted to be durable for a minimum of 100 years in all natural soils.

Application: In building construction, laid on top of the thermal insulation of terrace roofs (in inverted flat roof structures), it prevents fine gravel particles from getting in between the XPS boards, protects the thermal insulation or waterproofing from mechanical effects.

When installed in green roofs, it prevents humus from washing into the draining and water retaining TERRAPLAST® PLUS 20-P dimpled sheet or provides root protection.

According to its mechanical and drainage properties, it can be used in ground works (e.g. under sport fields, parking areas, temporary roads, roads with moderate traffic).

Rules of installation: Plain and free of sharp gravels surface is necessary for the laying TYPAR with free, at least 30 cm width overlapping. Not to be laid in viscous clay or silt. Product should be covered after 2 weeks of installation. Good resistance up to several months in direct sunlights, but prolonged exposure can cause strength losses.



TYPAR® SF 49, TYPAR® SF 56

Material: Identical with TYPAR PRO 125, but with higher mechanical strength.

Application: With the proper mechanical and drainage properties: in the construction of roads and other trafficked areas; railways; earthworks, foundations and retaining structures; drainage structures; external erosion control system; construction of reservoirs and dams; construction of canals; solid waste disposals and in liquid waste containments projects.

Rules of installation: Plain and free of sharp gravels surface is necessary for the laying TYPAR with free, at least 30 cm width overlapping. Not to be laid in viscous clay or silt. Product should be covered after 2 weeks of installation. Good resistance up to several months in direct sunlights, but prolonged exposure can cause strength losses.



Technical data:

	unit	TYPAR® PRO 125	TYPAR® SF 49	TYPAR® SF 56
Width:	m	2	4.5	4.5
Length:	m	25	100	100
Unit weight:	g/m ²	125	165	190
Tensile strength:	KN/m	8.5	12.0	12.8
Elongation:	%	52	60	65
CBR test (EN ISO 12236)	N	1180	1740	1970

	Available	Code
TYPAR® SF 49	4.5 m × 100 m	0608-49000000
TYPAR® SF 56	4.5 m × 100 m	0608-56000000





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