Aquaform SD - Aquaform VD

Central polypropylene drain with waterproof polyethylene membrane coated on both sides with polypropylene fabric, for use in Kerakoll waterproofing systems.

The membrane, which is cold bonded with the self-adhesive butyl flange, allows bonding with Biogel gel adhesives and total compatibility with Aquastop waterproofing systems to guarantee a continuous waterproof seal.

Aquaform SD: lateral drain, height 74 mm, outlet diameter 50 mm, with removable siphon.

Aquaform VD: vertical drain, height 141 mm, outlet diameter 75 mm.

Aquaform VD

Aquaform SD

1. Can be connected to Aquastop waterproofing systems
2. Connection membrane (included) adaptable to any geometry
3. Perforated grill support to drain water circulating under the tiles
4. Detachable stainless steel grill
5. High resistance to collision

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Areas of application

→ Intended use:
Creation of vertical or lateral connection drainage systems for rainwater in Aquastop waterproofing systems for balconies, terraces, flat roofs and horizontal surfaces of any size.

Substrates
Concrete, reinforced concrete, mineral screeds and substrates, old ceramic or stone floorings, metal and timber.

Do not use
- in the absence of suitable connections to rainwater drainage systems,
- in the absence of suitable slopes,
- in the absence of connecting membrane,
- in floors subject to heavy traffic and/or washing with aggressive substances.

Instructions for use

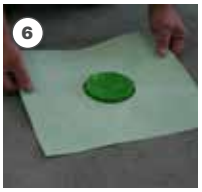
→ Application

(1) Before laying the substrate screed, position the drain without removing the green plug, so that the top level of the drain corresponds with the finished level of the screed (or is a few mm lower). Connect the drain to the main water drainage system. When laying the screed, carefully fill in all spaces and finish the surface of the screed. Check that there is a suitable slope and check the height of the drain.

(2) Check that the top ring of the drain is clean and free from dust, oil and grease, residue from previous operations and that it is dry (eliminate any condensation). Check that the temperature is > +10 °C (store the material at a temperature of > +20 °C on the day before application); pay attention to the presence of any dust or condensation, which must be removed completely.

(3) Remove the protective silicon film from one side (the connection flange can be laid either side up) and bond the flange on the top ring of the drain.

(4) Press firmly and smooth over, being careful not to wrinkle the tape. Check the tape's adhesion; tap the flange with a rubber hammer. The pressing and tapping phase is particularly important to guarantee final bonding, as the flange is an adhesive one.



(5) Remove the top protective silicon film.

(6) Bond the membrane, ensuring that the hole coincides with the internal diameter of the flange.

(7) Press firmly and smooth over, being careful not to wrinkle the tape. Check the membrane's adhesion; tap the flange with a rubber hammer. The pressing and tapping phase is particularly important to guarantee final bonding, as the flange is an adhesive one.
Operations to bond the butyl flange and the polymeric membrane are of particular importance, as the continuity of the water seal between the waterproofing and the drain must be guaranteed; any portions or points of the flange that are not perfectly bonded will cause infiltrations under the waterproofing. The green plug can always be removed temporarily for the sake of ease during the various application phases, but it must be left protecting the drain hole, above all when the applicator is not present, to avoid accidental filling of the drain.

Instructions for use

(8) Fold the membrane toward the drain and bond it on the substrate using Biogel No Limits gel adhesive.

(9) Remove any excess gel adhesive that has seeped out around the edges. If bonding is carried out using Biogel Extreme hybrid gel adhesive, avoid applying during the hottest hours of the day; if bubbles or wrinkles form due to evaporation of the solvent in the gel adhesive, smooth the membrane down with the spreader 10-20 minutes after application.
Protect the membrane from direct sunlight and abrasion until the next operation is carried out.

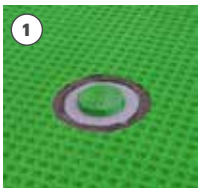
(1)

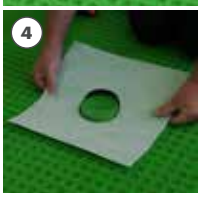
(2) Waterproofing

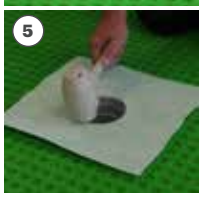
During waterproofing of the surfaces, cover the membrane with the two coats of waterproofing agent (when reinforcement with Aquastop AR1 mesh is envisaged, overlap the membrane by at least 10 cm); avoid forming counter-slopes caused by excessive thickness. Before laying the floor, cut the grill support according to the thickness of the material to be laid. Only remove the green plug immediately before positioning the grill support.

(3) Create an expansion joint between the floor and the grill support with a width of at least 6 mm and seal with Silicone Color or Neutro Color.

→ Application in the Aquastop Green system







(1) Before connecting the membrane to the drain with the butyl flange, bond the Aquastop Green membrane after making a hole in correspondence with the top ring of the drain (make the hole with a diameter slightly larger than the ring).

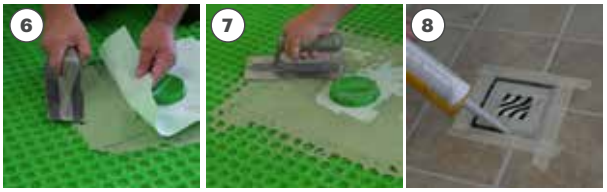
(2) Check that the top ring of the drain is clean and that the temperature is > +10 °C (store the material at temperatures of > +20 °C on the day before application). Remove the protective silicon film from one side of the connection flange (the flange can be laid either side up) and bond the flange to the top ring of the drain; press down strongly and smooth over, being careful not to wrinkle the flange, checking that it has bonded properly; tap the flange with a rubber mallet (this phase is particularly important to guarantee final bonding, as the flange is an adhesive one).

(3) Remove the remaining silicon film.

(4) Bond the membrane, ensuring that the hole coincides with the internal diameter of the flange.

(5) Press down strongly and smooth over, being careful not to wrinkle the flange, checking that the membrane has bonded properly; tap the flange with a rubber mallet (this phase is particularly important to guarantee final bonding, as the flange is an adhesive one).
Operations to bond the butyl flange and the polymeric membrane are of particular importance, as the continuity of the water seal between the waterproofing and the drain must be guaranteed; any portions or points of the flange that are not perfectly bonded will cause infiltrations under the waterproofing. The green plug can always be removed temporarily for the sake of ease during the various application phases, but it must be left protecting the drain hole, above all when the applicator is not present, to avoid accidental filling of the drain.

Instructions for use



6 Fold the membrane toward the drain and bond it on the Aquastop Green membrane using Aquastop Fix sealant.

7 Remove any excess sealant that has seeped out around the edges. Do not cover the membrane with the sealant to avoid the formation of counter-slopes caused by excessive thickness.

Protect both the Aquastop Green membrane and the connecting membrane from direct sunlight and abrasion until the next operation is carried out. Before laying the floor, cut the grill support according to the thickness of the material to be laid. Only remove the green plug immediately before positioning the grill support.

8 Create an expansion joint between the floor and the grill support with a width of at least 6 mm and seal with Silicone Color or Neutro Color.

Special notes

→ Substrate requirements
Cured (dimensionally stable):
- screeds in Keracem Eco and Keracem Eco Pronto, waiting time 24 hrs;
- concrete wait 6 months;
- for cement-based screeds or plasters 7-10 days per cm of thickness (good weather).

Intact (free of cracks):
- restore integrity with Kerarep Eco;
- check the adhesion of pre-existing coverings;
- elements not perfectly adherent must be removed.

Compact (to full thickness): striking forcefully (5 kg mallet), no evident marks or crumbling must be made.

Tough on the surface
- when scraping with a large steel nail no deep scratches will form and no crumbling will occur;
- free of surface bleeding.

Dry:
- dry surface free of condensation
- R.H. in body < 3%.

Clean: surface free of cement slurry, oil-based parting compounds, traces or residues of paints, adhesives, residues of previous operations, dust. On old flooring that is stable and perfectly anchored, completely remove any surface treatments and clean thoroughly with specific detergents and pressurised water. Remove any condensation or residual washing water.

→ Drainage of water from a floor that is exposed to frequent wetting is ensured by specific floor drainage systems, which must be installed, taking into account the required slopes, so as to ensure continual drainage of the water from the tiled surface to the mouth of the drain itself.

→ All accessories making up the drain system must be compatible with the adhesives and sealants used.

→ The size of the drainage network (number of drains by surface area) must take into account local rainfall intensity, exposure, orientation, slopes, roughness and absorbency of the surfaces served by each drain and, above all, the level of cleaning and the frequency with which the drain covers (grills) are maintained.

Technical Specifications

→ Supply and installation of Aquaform VD vertical drain and Aquaform SD side drain central floor drains, consisting of polyethylene drain, butyl double sided adhesive connection flange, Aquastop Fabric membrane, polypropylene grill support and steel grill by Kerakoll spa.

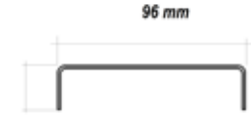
Technical Data compliant with Kerakoll Quality Standard	
Aquaform VD and Aquaform SD consist of:	
	- polypropylene VD or SD drain
	- butyl double sided adhesive flange for cold bonding of the membrane
	- Aquastop Fabric membrane 33x33 cm with central hole for connection to the Aquastop waterproofing systems
	- polypropylene grill support, working height 50 mm
	- steel grill 100x100 mm
Aquaform VD specifications:	
- dimensions	see technical diagrams
- flow *	≈ 5.5 l/s
- working temperature	-40° C + 80° C
Aquaform SD specifications:	
- dimensions	see technical diagrams
- flow *	≈ 0.5 l/s
- working temperature	-40° C + 80° C
Grill specifications:	
- material	stainless steel
- total hole aperture	≈ 1200 mm^2
- working temperature	-40° C + 80° C

* the flow rate values indicated are theoretical and must be implemented using the contents of the paragraph "Other indications"

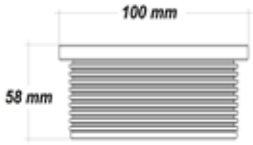
Technical diagrams

Aquaform SD

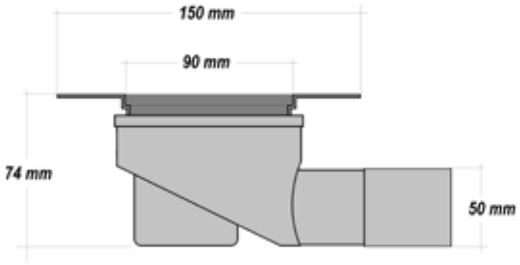
Grille



Grill holder

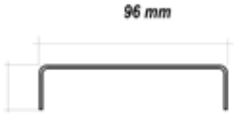


Drain

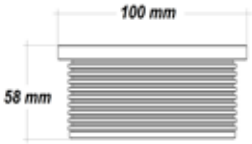


Aquaform VD

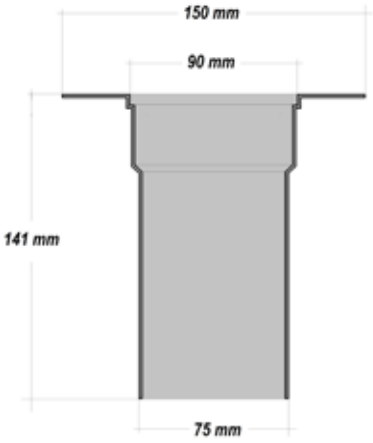
Grille



Grill holder



Drain



Warning

→ Product for professional use
→ abide by any standards and national regulations
→ the flow rate values indicated are theoretical and must be put into context during the planning phase
→ the product is an item according to the definitions of the EC Regulation No. 1907/2006 and therefore does not require a Safety Data Sheet
→ for any other issues, contact the Kerakoll Worldwide Global Service - info@kerakoll.ae

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