

Stormwater Well Cover

Combi Plus



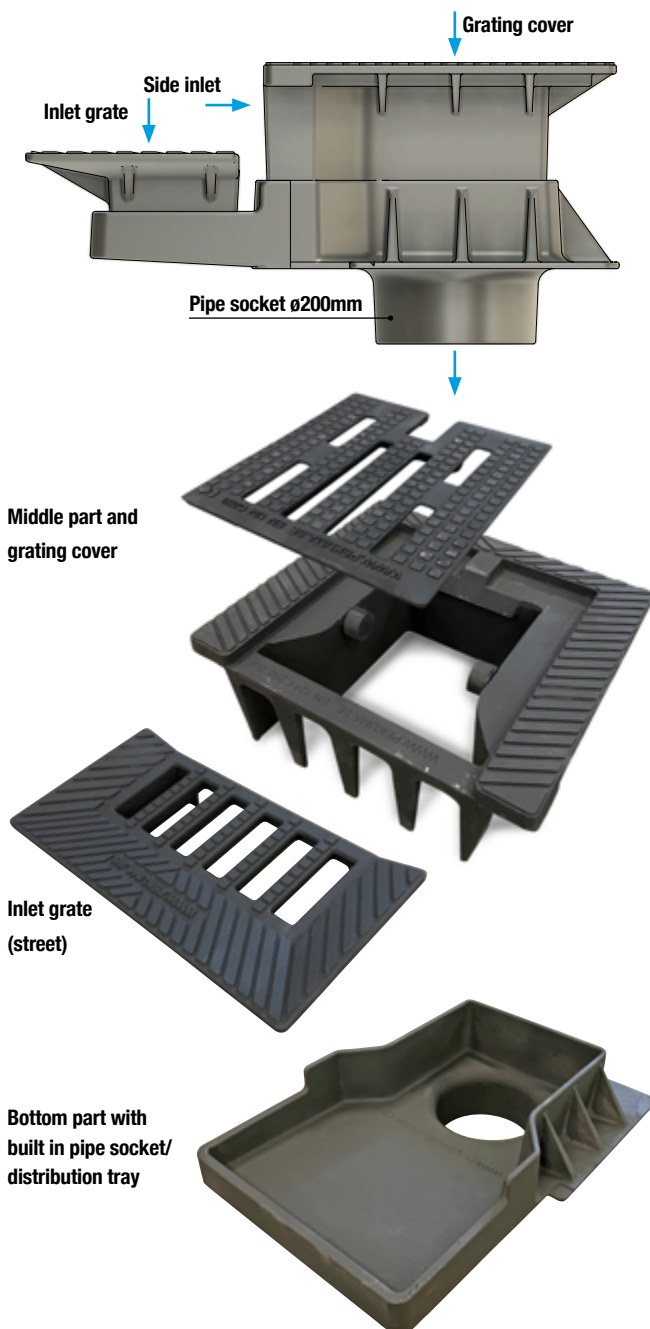
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About Combi Plus

This model is designed to facilitate when it comes to both new installations, rebuilds and for future operations and maintenance. The cover is quite unique with its three water inlets and innovative uses.

The cover consists of 4 parts: A bottom part with a built in pipe socket (scupper), a telescopic middle part with a vertical side inlet, a grating cover and a telescopic horizontal inlet grate.

- Drainage of walkway/bicycle path takes place via the grating cover placed in the walkway.
- Drainage of the road takes place both via the horizontal grate in the road and through the vertical side inlet.



Advantages

- Improved working environment: Inspections and/or suction of the well can be performed standing on the pavement/sidewalk instead of in the street.
- The built in pipe socket gives the cover a scupper function while simultaneously being a stormwater well cover with side inlet.
- Thanks to the pipe socket the well is adjustable up to 20 cm sideways on a 400mm well. If additional adjustment is needed we recommend using the scupper function.
- The pipe socket prevents leaking of water between the cover and the well which can cause material migration and subsidence as a result. Combi Plus is therefore well suited for use in water protection areas.
- Connect multiple covers to the same larger well.
- Combi Plus is fixed in the curb upon installation which makes it sit firmly in its position.
- The grating cover in the pavement acts as both a drain and overflow protector, if (against all odds) the other inlets should get clogged.
- When using a separation between the walk- and roadway this cover can be placed so that the side- and road inlet takes care of the draining from the roadway. By making an opening in the separation strip, the water from the walkway is led to the grating cover. Only one well and cover is needed.
- Combi Plus gives you unique possibilities to utilize stormwater for irrigation of tree pits and plant beds.
- The lid is designed so it will not get stuck. The rectangular shape simplifies paving.
- The lid is locked in place by two rubber bushings in the middle part. No special tool is needed to open it, an iron skewer works well.

Opening the lid is easy with an iron skewer



Installation recommendations:

Draining to a stormwater well

Combi Plus should be placed on a displacement plate or a frame when used directly on top of a well or when the scupper function is used.

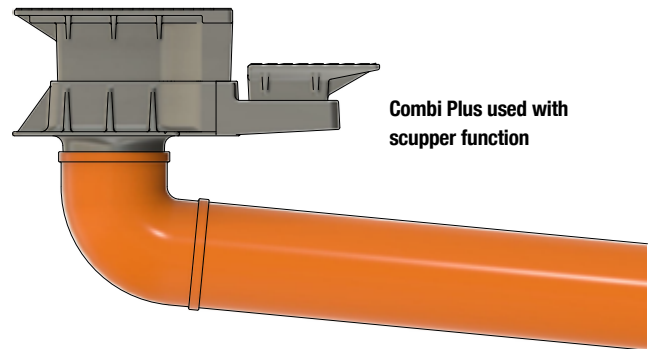
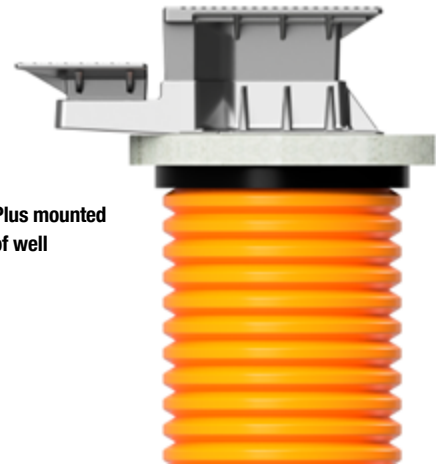
If Combi Plus is used with 3 water inlets it should be placed at least 1 -2 cm inside the curb to prevent plowing damage. Bevel the protruding corners of the curb. See illustration "Plane 1".

Make a cut-out in the curb and let the well cover rest on the cut surface. See illustration "Front".

When using a bevelled curb stone the well cover should be placed where the bevel begins. Cut or saw off the sharp corners of the curb. See illustration "Plane 2".

The horizontal inlet in the roadway must be adjusted so that the finished paving ends up at least 1 cm over the water inlet. See illustration "Profile".

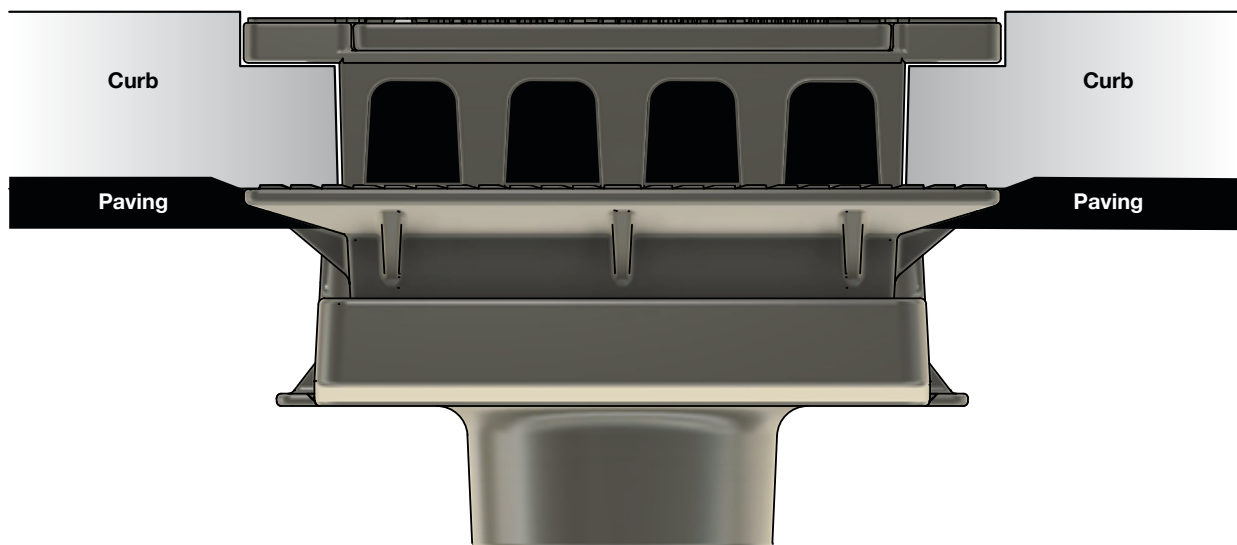
Combi Plus mounted on top of well

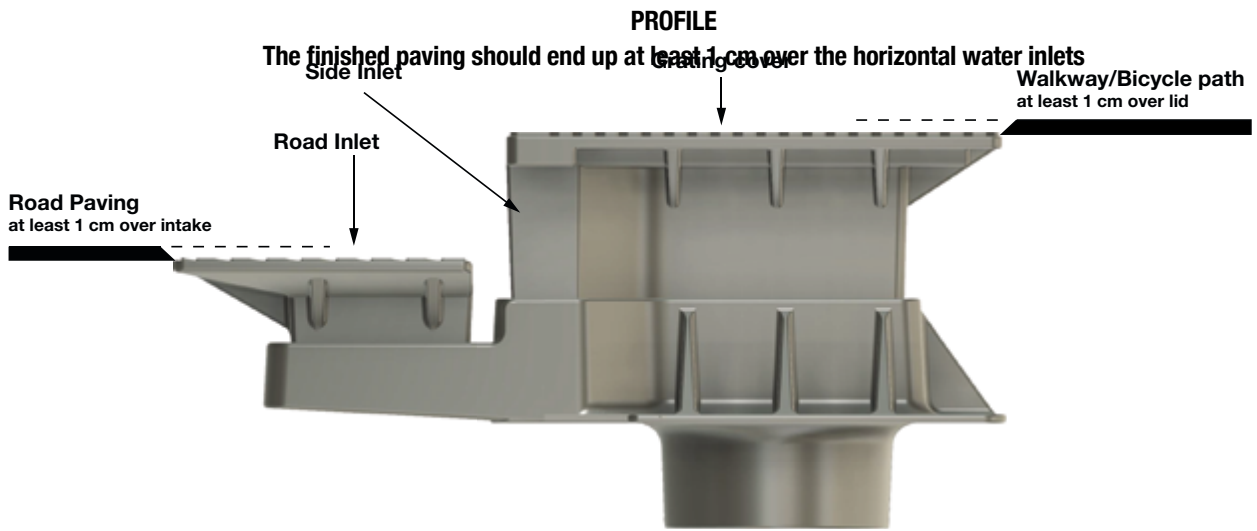


Combi Plus used with scupper function

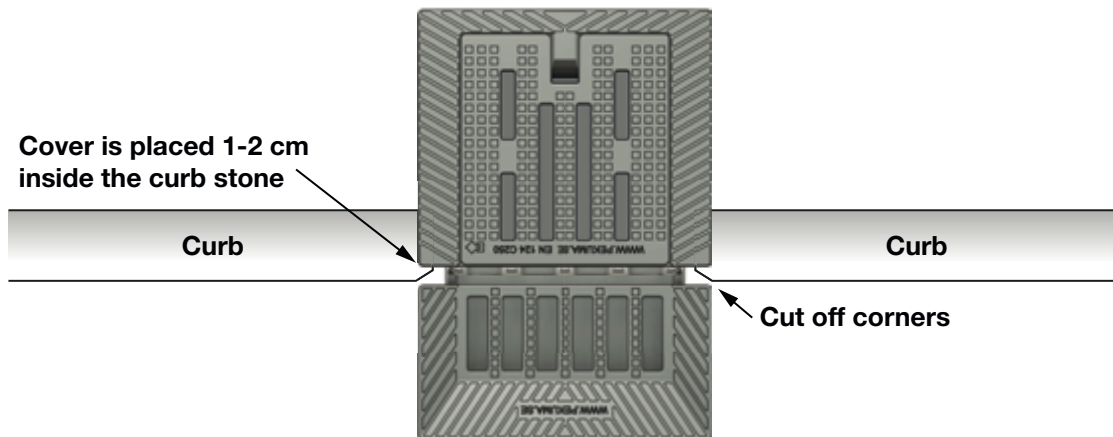
FRONT

A cut-out is made in the curb so that the cover rests on the cut surface

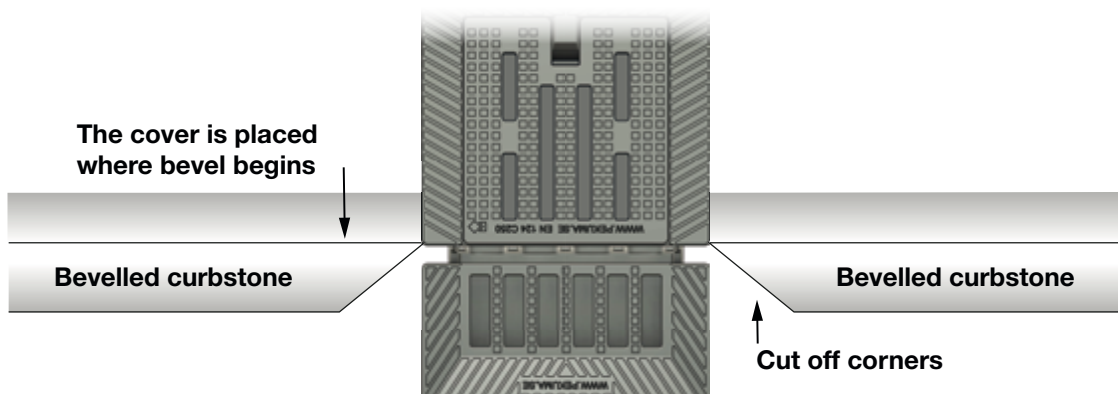




PLANE: 1
 Combi Plus should be placed 1-2 cm inside the curb stone to avoid plowing damage

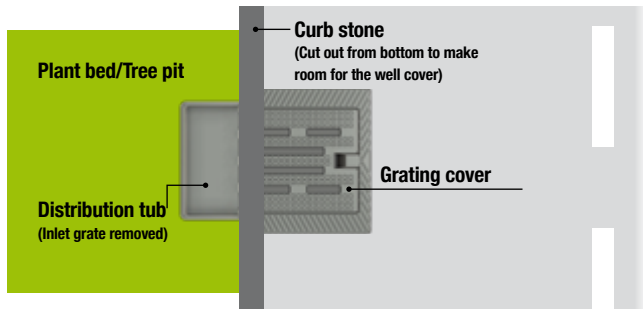


PLANE: 2
 Combi Plus should be placed where the bevel starts



Draining to plantbed or tree pit

By installing Combi Plus submerged, and rotating it 180°, the road inlet can be used as a distribution tub for watering (the grate can be removed). The lid of the cover becomes the sole inlet and the water is led to the plant bed via the distribution tub. The distribution tray prevents subsidence of the soil in the plant bed and ensures surface watering. This way, even seedlings with shallow roots can absorb the water.



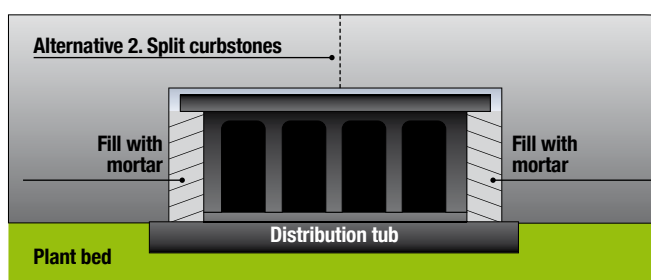
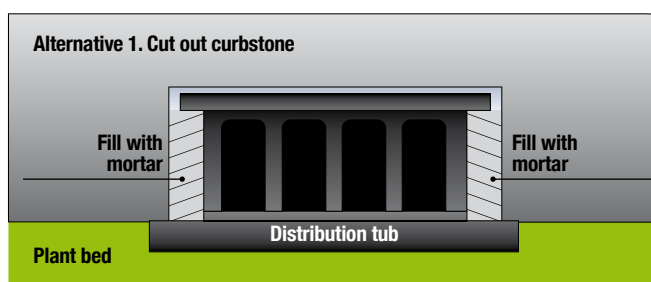
The pipe socket in the bottom part can either be sealed or provided with a riser pipe that connects to a well. The riser pipe is used as an overflow protection to prevent possible flooding in the plant bed. If the distribution tub is used on its own, Combi Plus should be installed in mortar to seal the pipe socket and stabilize the bottom part.

If Combi Plus is used with the distribution tub and you would like a smooth curb line, the curbstone can be cut out to make room for the cover. The space between the curbstone and cover can then be filled with mortar.

To facilitate the work with the curb we recommend that the stone used directly over the well cover is no bigger than around 1 meter.

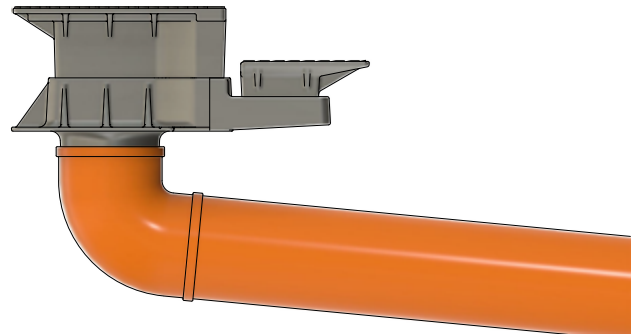
As an alternative you can fit and cut the ends of two curbstones and let them meet directly on top of the cover.

See illustrations below:



Draining to plantbed via scupper:

A pipe is connected to the built in pipe socket in Combi Plus' bottom and is led on to a stormwater well with a sandtrap. From here, the water can be led on to a plant bed or tree pit.



For a more detailed description of the procedure and to ensure proper installment, feel free to contact us for a meeting or a web-based demo. You can also find more information on our web site:

www.pekuma.se/stormwater

The Combi Plus cover with side inlet is adapted according to EN 124 C250. RSK Number 6585275.