

Info Sheet

Water retention, aeration and drainage

Choose the right drainage element in the extensive green roof system build-up!

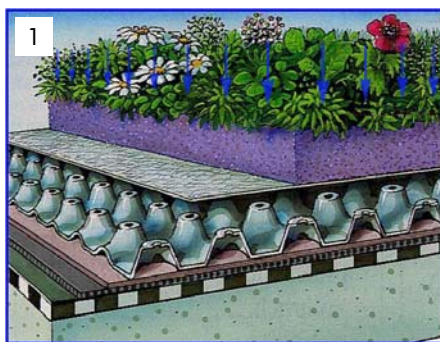
Water storage, root zone aeration and drainage of excess water in the extensive green roof system build-up

are vital to create a beautiful, functional & long lasting green roof. The Choice of the drainage element

in the system build-up is the key to the success.

Benefits of the 40 mm high drainage element for extensive green roofs:

- High drainage capacity during storm events.
- High water storage capacity in the retention cups extends drought resistance of the system build-up.
- 40 mm height of the drainage element creates a safe distance to ponding water and allows extensive green roofs even on 0° slopes.



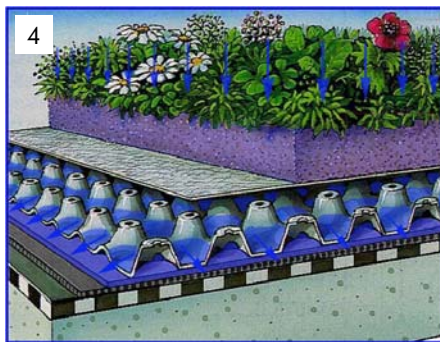
When it rains the system substrate stores the main amount of water.



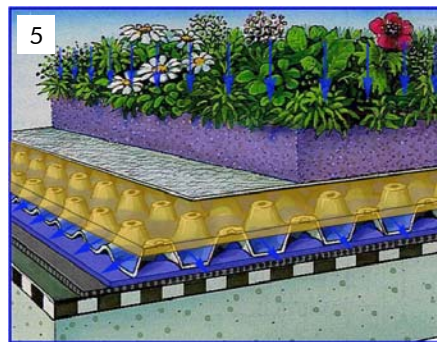
Excess water moves downwards through the filter sheet into the drainage element where a significant amount of water is stored.



Excess water overflows the cups and through the joints of the drainage element reaches the canal system underneath.



The protection and moisture retention mat is the third component of water storage in the system build-up.



A gap between retention cups and filter sheet provides necessary aeration for the root zone - even when the system is completely water saturated.



Any excess water that cannot be stored by the system build-up is drained away quickly and securely.