

ND AFC-100 Adjustable Flow Control



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The ND AFC-100 Adjustable Flow Control System consists of a mechanical flange, adjustable outlet (ring and adapter), integrated overflow, and mounting screws. The ND AFC-100 is installed in combination with the ND WSE lte (for extensive green roofs), ND WSE lt (for intensive green roofs), and ND WSE hd (for trafficable roofs) Water Retention Elements.

The position of the adjustable ring, in combination with the selected height of the ND WSE Water Retention Elements, determines the corresponding discharge rate. This ensures that temporarily retained water is discharged in accordance with the hydraulic requirements of the water retention roof system. The water flow can be freely adjusted across 27 levels, ranging from 0.09 l/s to 3.08 l/s, depending on the desired retention height.

The ND AFC-100 is equipped with a mechanical flange, which allows the sealing sleeve to be manufactured on-site from the same waterproofing material. This ensures a secure and customized connection adapted to local conditions and can be bonded or welded to the roofing system.

Make sure that the ND AFC-100 is coordinated with the planned or existing drainage system and approved accordingly. Our technical advisors are happy to assist you with any questions.

Application

The ND AFC-100 Adjustable Flow Control is a component of the following Nophadrain systems:

- Nophadrain Water Retention Roof System – Extensive green roofs
- Nophadrain Water Retention Roof System – Intensive green roofs
- Nophadrain Water Retention Roof System – Trafficable roofs

Properties

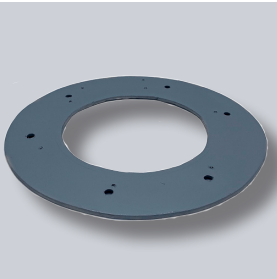
- Materials: Polyamid PA6 with glass fibers, EPDM O-Rings and stainless steel fasteners.
- Material Flange: Can be adjusted to the waterproofing used on the project.
- Discharge Values: Can be adjusted, depending on the water level, in 27 steps from 0,09 l/s up to 3,08 l/s.



Overflow adjusting ring

Product	Dimensions (L x W x H)	Packaging
ND AFC-100 Adjustable Flow Control	approx. 495 x 495 x 175 mm	Per piece, in carton box*

*Without connection sleeve



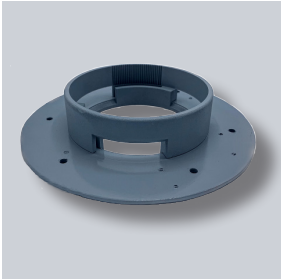
Flange



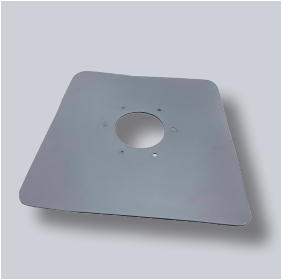
Overflow adjusting adapter



Mounting screws



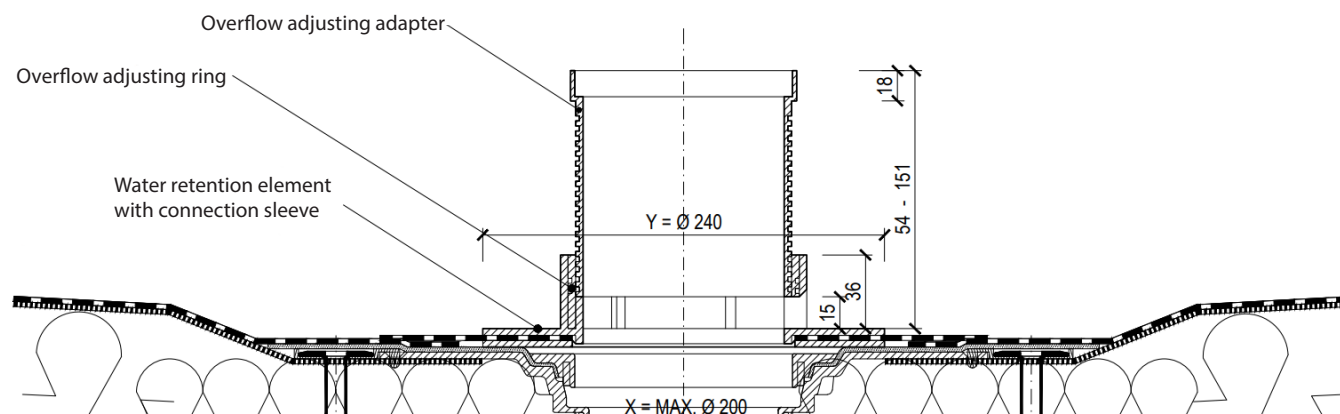
Adjustable retention element



Connection sleeve

TECHNICAL DATA SHEET - 2/2

ND AFC-100 Adjustable Flow Control



Flowrate ND AFC-100 (l/s)					
Position of ND AFC-100 slider	50	65	80	100	150
	Pp (50) mm	Pp (65) mm	Pp (80) mm	Pp (100) mm	Pp (150) mm
1	0.092650	0.106277	0.118345	0.132740	0.163266
2	0.156252	0.179234	0.199586	0.223863	0.275344
3	0.219855	0.252191	0.280828	0.314986	0.387422
4	0.283457	0.325147	0.362069	0.406109	0.499501
5	0.347059	0.398104	0.443310	0.497232	0.611579
6	0.410661	0.471061	0.524551	0.588355	0.723657
7	0.474263	0.554017	0.605792	0.679477	0.835735
8	0.537865	0.616974	0.687033	0.770600	0.947813
9	0.601468	0.689931	0.768274	0.861723	1.059892
10	0.665070	0.762887	0.849515	0.952845	1.171970
11	0.728672	0.835844	0.9307557	1.043969	1.284048
12	0.792274	0.908801	1.011998	1.135092	1.396126
13	0.855876	0.981757	1.093239	1.226215	1.508204
14	0.919478	1.054714	1.174480	1.317337	1.620282
15	0.983081	1.127671	1.255721	1.408460	1.732361
16	1.046683	1.200627	1.336962	1.499583	1.844439
17	1.110285	1.273584	1.418203	1.590706	1.956517
18	1.173887	1.346541	1.499444	1.681829	2.068595
19	1.237489	1.419497	1.580685	1.772952	2.180673
20	1.301091	1.492454	1.661927	1.864075	2.292752
21	1.364694	1.565411	1.743168	1.955198	2.404830
22	1.428296	1.638368	1.824409	2.046320	2.516908
23	1.491898	1.711324	1.905650	2.137443	2.628986
24	1.555500	1.784281	1.986891	2.228566	2.741064
25	1.619102	1.857238	2.068132	2.319689	2.853142
26	1.682704	1.930194	2.149373	2.410812	2.965221
27	1.746306	2.003151	2.230614	2.501935	3.077299