ENGINEERED™ SOLUTIONS
A division of Morris/Lee, Ltd.™

321 Cityview Blvd
Unit #4
Vaughan, Ontario
L4H 3M3
905.832.0909
www.EngineeredSolutionsCan.com
Order@EngineeredSolutionsCan.com
www.rain-water.Solutions

Job:

Engineer:

Purain Filter DN 150

without Skimmer

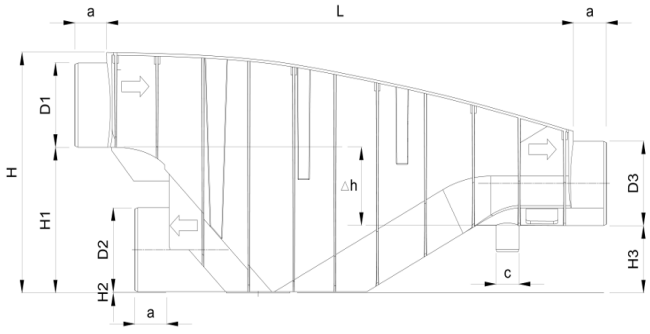
The PURAIN Rainwater filter, also known as the hydraulic jump filter, is the innovation for roof areas ranging from 60m² to more than 15.000m².

This hydraulic jump technology cleans itself automatically. The design model for PURAIN Rainwater filters comes from nature:

At almost every course in a stream, you can see how the hydraulic jump functions. The water flows over one of the stones, smooth and rounded by the action of the water over time. The water flow is substantially changed by the height drop, from a sub-critical to a super- critical flow. At the bottom of the dip, the waterflow changes again to a subcritical flow in a process now commonly known as hydraulic jump. This resulting increase in water power forces any impurities over the next level and washes them away downstream.

Length	40.08 in
Width	9.57 in
Height	18.03 in
Net weight	13.78 lbs
Mesh size	0.03 in
Height, intake	10.91 in
Height, dirty water connection	5.04 in
Height offset Δh	5.87 in
Intake connection	DN 100
Dirty water outlet	DN 150
Color	Black
Loading class	Begehbar
Material	EPDM, PP, Stainless steel
Effective efficiency	98

PURAIN Model	Pipe Diameter (in.)	Max Flow Rate at 1.5% Fall (GPM)	100% Capture Maximum Flow (GPM)	Rated Max. Roof Square Footage	Recommended Connection Pipe Type
DN100	4	90	21	3,000	
DN150	6	268	96	10,000	
DN200	8	576	175	22,000	SDR 35 PVC
DN300	12	1684	240	47,000	SDR 35 PVC
DN400	16	3632	480	102,000	SDR 35 PVC



D1 Intake
D2 Drain outlet for cistern
D3 Wastewater outlet
H1 Intake
H2 Outlet for Cistern
H3 Waste water outlet
Δh Vertical offset between intake and waste water drainage
a Length spigot end

SIZE:
SCALE:
DATE:
APPROVED BY:
CHECKED BY:
DRAWN BY:
DN 150

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE
WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA

FIGURE NUMBER	REV.	DATE	DESCRIPTION	BY	CKD. BY	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
								DN 150