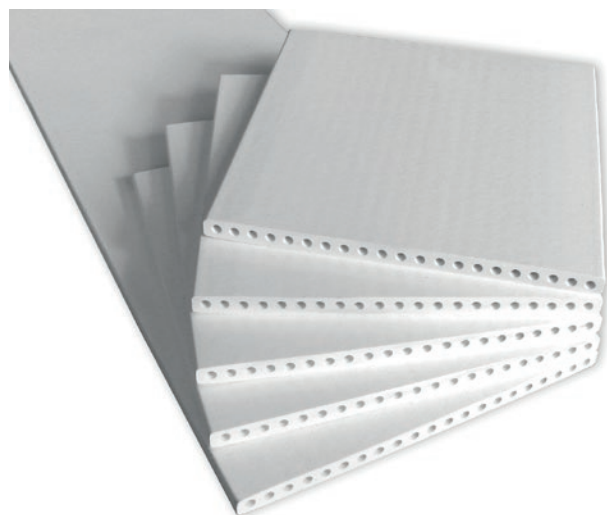


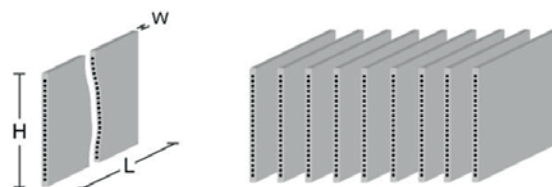
# Ceramic Flat Membrane

- CFM Systems® (Ceramic Flat Membrane) combines the advantages of an asymmetric inorganic filter and submerged flat membrane filtration.
- The advanced design enables an unprecedented technical and economical water treatment in different fields of application.



Fields of Application	Drinking Water			Sewage
	Ground Water	Surface Water	Sea Water	Municipal
Core Treatment Targets	Removal of inorganic oxidized and adsorbed compounds	Removal of suspended solids, micro-organism	Removal of suspended solids, micro-organism	Removal of suspended solids, micro-organism
Membrane Structure	Asymmetric design			
Material of Membrane	$\alpha\text{-Al}_2\text{O}_3$			
Filter Active Layer	InOxi (Fe/Mn) InOxi-Ads (Ra)	Org-Rem Org-Ads	Org-Rem Org-Ads	BioSys
Material of Filter Active Layer (Nano-coating)	$\alpha\text{-Al}_2\text{O}_3/\text{ZrO}_2$ (modified depending on removal targets)			
Average Pore Size [nm]	200 (other sizes on request)			

Length L [mm]	530
Width W [mm]	6.5
Height H [mm]	110
Inner Diameter of Filtered Water Channel [mm]	3.0
No. of Filtered Water Channels	21
Filter Area per Plate [m²]	0.12



Fields of Application	Drinking Water			Sewage
	Ground Water	Surface Water	Sea Water	Municipal
Max. Operating Pressure [bar]	2.5	2.5	4.0	1.5
pH Range	2–10			
Operating Temperature Range [°C]	20–60	5–40	5–35	5–35
Permeability [l/m²·h·bar]	7,500	5,000	6,000	2,000

