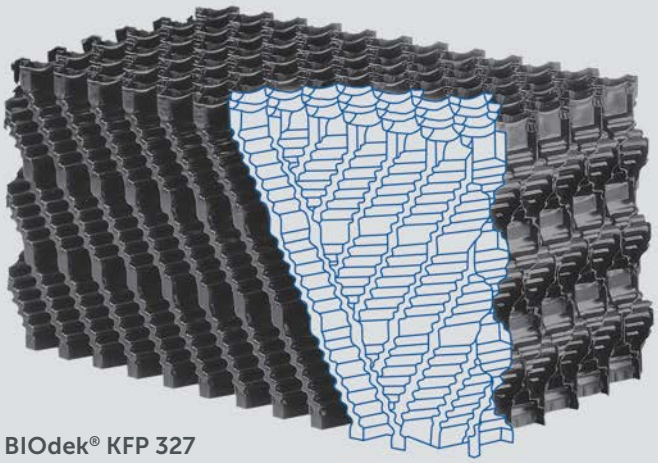
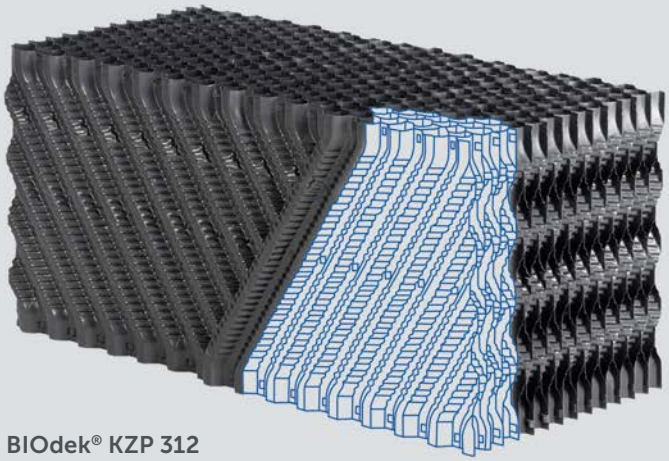
BIOdek®
CROSS-FLUTED FILLS

For Biological Processes in Water and Waste Water Treatment



BIOdek® KFP 327



BIOdek® KZP 312

BIOdek® cross-fluted fills are designed for high efficiency and for meeting high effluent standards. Adjusted to the application, a variety of flute sizes between 8 and 38 mm provides sufficient space for biofilm growth. For nitrification and other applications with thin biofilms a high specific surface enables the construction of compact plants.

Freely selectable sheet thicknesses allow the production of BIOdek® fills which bear any weight load occurring in sewage treatment and which achieve any design life. BIOdek® is resistant against rot, fungi and most chemicals. UV protection additives are part of the compounds.

With our unique welding process fills can be assembled anywhere in the world environmentally friendly, safe and avoiding the use of solvents.

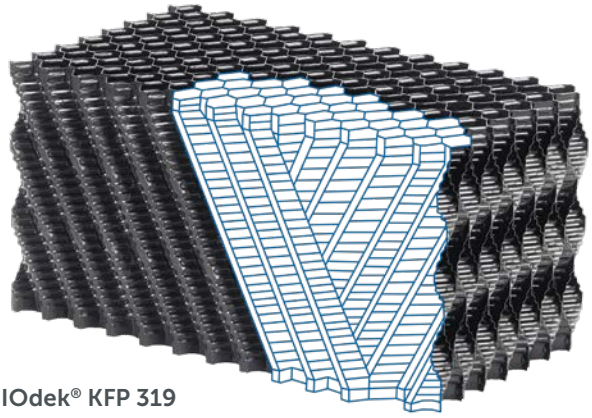
Features of our BIOdek® Cross-Fluted Fills

- Optimum structures in terms of process engineering
- Premium quality materials for high quality requirements
- Easy and reliable on-site welding technology
- Freely selectable foil thickness for high bearing loads
- No memory effect
- Environmental friendly, impact and age resistant PP (PVC optional)

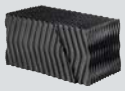
BIOdek® cross-fluted fills achieve best effluent values of biological sewage plants. Our customers profit from our experience gained by equipping hundreds of water treatment plants. We will be happy to support you in designing highly efficient and energy saving trickling filters or submerged bed reactors.

Technical Data		
	PP	PVC
Void ratio	> 97 %	
Maximum length	2400 mm	
Maximum width	600 mm	
Standard height	305 or 610 mm	
Continuous operating temperature	70 °C	55 °C

Maximum tolerances: On all dimensions +/- 20 mm or 2 % whichever is the greater. Other tolerances and dimensions by prior agreement.



BIOdek® KFP 319

Types							
Application			Type	Material	Spec. surface area	Channel inclination	Corrugation height
Trickling Filters	Submerged Fixed Bed				m^2/m^3		mm
BOD_5-reduction							
For partly BOD-removal or if effluent load up to 50 mg/l is allowed. Volume load can be up to 2,5 kg BOD/m^3.	Only as distribution layer above the support system.		KFP 327/627	PP	125	60°	27
			KFC 327/627	PVC			
For all BOD effluent standards. BOD-load <1 kg/m^3d	For BOD-removal by rotating biological contactor.		KFP 319/619	PP	150	60°	19
			KFC 319/619	PVC			
Nitrification							
For all BOD effluent standards. BOD-load <0,5 kg/m^3d	Downstream nitrification, without regular air flushing.		KFP 319/619	PP	150	60°	19
			KFC 319/619	PVC			
Downstream nitrification after complete BOD-removal.	Downstream nitrification.		KPP 312/612	PP	232	75°	12
Downstream nitrification after complete BOD-removal.	Downstream nitrification.		KZP 312/612	PP	240	60°	12
			KZC 312/612	PVC			
For applications without BOD-load.	For applications without BOD-load.		KFP 158	PP	320	45°	8

ENEXIO Water Technologies GmbH
2H Components and Solutions
Dieselweg 5, 48493 Wettringen, Germany
Phone +49 25 57 / 93 90 0, Fax +49 25 57 / 93 90 49
info@enexio-water-technologies.com
www.enexio-water-technologies.com

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TÜVRheinland ZERTIFIZIERT
www.tuv.com ID 9105070210

ENEXIO Water Technologies, Germany, is ISO 9001:2008 certified.