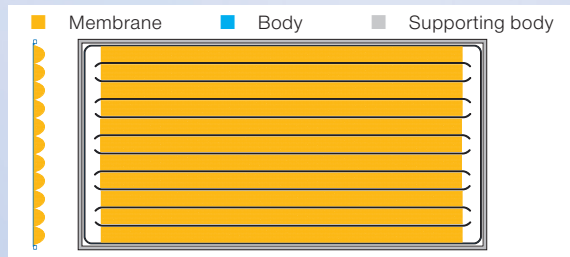




# PRO<sub>2</sub> AIR Pre-PUR® Membrane plate diffusers



- Reliable operation
- Very long service life
- Significantly lower operating cost **with polyurethane!**

## Applications

PRO<sub>2</sub> AIR Membrane plate diffusers - quality products from the NORRES stable - are mainly used for fine-bubble, compressed air aeration. Please ask NORRES for advice before using it in industrial wastewater.

- Oxygenation in the aeration tank to facilitate selective nitrification
- Continuous or intermittent aeration
- Mixing of aeration tanks (municipal and industrial)
- Aeration of collecting and intermediate storage tanks
- Restoration (aeration) of rivers and lakes
- Aquaculture (fish farming)

## Properties

- Extremely durable thanks to the optimal, permanent elasticity of the Pre-PUR® membrane
- The perforation was specially developed with an ingenious design which ensures that the aeration system always operates efficiently – it closes completely and automatically if the air supply is switched off
- Intermittent duty is now possible without any restrictions
- The membrane is non-clogging, so that full controllability is assured even with a low specific air flow
- Much higher oxygen utilisation is achieved

with the same air flow rate compared to conventional aeration systems

- Much lower operating costs thanks to the very good oxygen transfer rate (SSOTR) and oxygen transfer efficiency (OP) of the NORRES PRO<sub>2</sub> AIR Pre-PUR® membrane plate diffuser

## Membrane material

- Pre-PUR®

## Dimensions

- 2000 mm x 1250 mm
















## Weight

- 15 kg

## NORRES Pre-PUR®




Not all polyurethanes are the same! NORRES uses a special polyurethane mixture that is differentiated with the name Pre-PUR® for its diffuser membranes. Our Pre-PUR® raw materials are distinguished in the following ways from many of the membrane materials commercially available:

Applications/ properties of the different materials in comparison

Applications/ properties	 EPDM	 Silicone
For municipal waste water acc. to DWA-M115		
For industrial waste water		
Free of softener and therefore no embrittlement		
Resistant to organic oils and greases	-	
Resistant to mineralic oils	-	
Smooth surface to prevent incrustations	-	
Permanently resistant to microbes and hydrolysis	-	
High permanent elasticity	-	-
High tensile strength and tear resistance		
Good resistance to UV	-	

## PRO<sub>2</sub> AIR Pre-PUR® membrane plate diffusers

The Pre-PUR® raw materials used for NORRES PRO<sub>2</sub> AIR Pre-PUR® diffusers make a huge difference: NORRES Pre-PUR® is absolutely free of softeners, so that material embrittlement is ruled out. To improve the chemical, hydrolytic and thermal stability of the Pre-PUR® diffuser membrane, NORRES has collaborated with raw material suppliers on the development of special stabilisers.

-  = excellent
-  = good
-  = moderate
- = poor