



## Premier Tech Coconut based Filter Summary of testing under EN 12566-3 Standard

Testing platform: CSTB at Nantes (France)  
Testing period: December 2007 to October 2008

Unit tested:

- Septic tank having a capacity of 3 m<sup>3</sup> equipped with Premier tech effluent filter EFT-080 (opening of 1.6 mm)
- 6 PE Premier Tech coconut based filter (filter bed of 4.9 m<sup>2</sup> in surface and 65 cm in height)

Testing protocol: according to EN 12566-3 requirements 4 weeks for biomass acclimation followed by 38 weeks at 50, 100 and 150% of daily loads

Flow rate applied: 900 liters/day (150 l/d per PE)

Hydraulic loading rate: 184 l/m<sup>2</sup> per day

Loads applied: 277 gBOD<sub>5</sub>/day and 44 gNH<sub>4</sub>/day

### Results obtained

Results obtained during the 38 weeks of testing in all conditions

Parameters	Influent	Treated effluent
TSS (mg/l)	395	4.7
COD (mg/l)	761	42.6
BOD <sub>5</sub> (mg/l)	308	3.5
NH <sub>4</sub> (mg/l)	48.8	6.2

Performance in nominal conditions

Parameters	Removal (%)
TSS	98.2
COD	92.9
BOD <sub>5</sub>	98.0
NH <sub>4</sub>	91.0

All the results obtained are applicable to the Conder Clereflo Eco units if designed in accordance with all previous parameters.