

Nordic HighTurb

This application is based up on a conventional method in two steps:

1. Chemical precipitation/flocculation + sedimentation followed by
2. Filtration

The difference is that it combines the much more compact Lamella sedimentation with DynaSand filter advantages.

Higher flow rates over a smaller space

Lamella settling tanks can cope with significantly higher flow rates with the same space requirements and usually better results than conventional sedimentation. Thanks to the major advantage offered by the DynaSand filter – its ability to accumulate higher quantities of sludge – the lamella settling tank can be built to somewhat smaller dimensions than it could if backwashing sand filters were used.

The total amount of space needed can be reduced to around 1/3 of the area required by a conventional system of a similar type.

The process is extremely robust and is particularly suited to treat surface water which shows significant variations in turbidity, or which needs large doses of precipitants. At Nordic Water, we have installed systems based on this process in various water purification plants and industries worldwide.

Typical values for Nordic Water's turbid surface water treatment system:

	Input values	Output values
Turbidity:	0.5-5'000 FTU	< 0.1 FTU
Colour:	10-500 mg/l Pt	< 5 mg/l Pt

