

Subterranean storage tank

Extra protection against leakage, for a cleaner environment!

Zweva from Noorderwijk-Herentals, Belgium develops and produces plastic products for subterranean application. BPO from Delft did the engineering of one of the latest products of Zweva: a double-walled subterranean storage tank for fuel oil. By the permanent leak protection the tank contributes to a cleaner environment.

Zweva developed an innovative rotation moulding process to produce double-walled storage tanks. A patent for this production-process has been applied for. These so called Z-tanks offer extra protection against leakage and have higher constructional stiffness compared to conventional designs, at a lower use of material.

BPO used finite element analyses to determine the optimal shape and rib configuration of the Z-tank to resist ground- and water pressure.

The Z-tank is provided with ribs in both axial and tangent direction. The rib concept and the placements of the 'kiss-offs' – the locations where the inner and outer tank wall touch – appeared to be of high importance to the overall stiffness of the Z-tank.

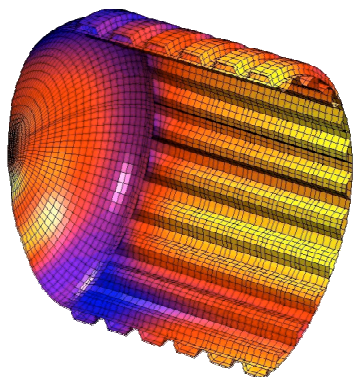
Meanwhile the Z-tank is produced in high volumes at Zweva Rotomoulding NV in Belgium.

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Press release

