

CONDENSATION — THE DEADLY ENEMY OF INSULATION

Damp insulation doesn't insulate!



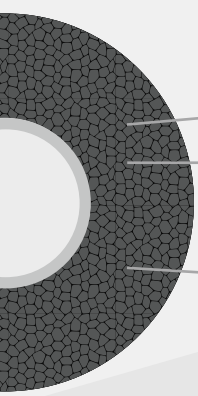
ARMAFLEX

VS.

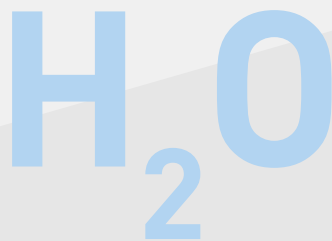


MINERAL WOOL

HOW WELL ARE THE SYSTEMS PROTECTED AGAINST HUMIDITY?



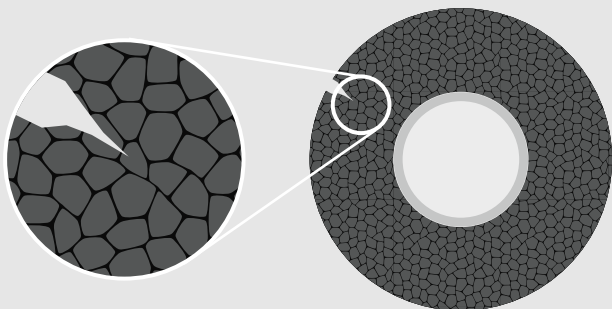
Closed-cell structure
Vapour barrier is built up cell by cell over the whole insulation thickness
 $\mu \geq 10,000$



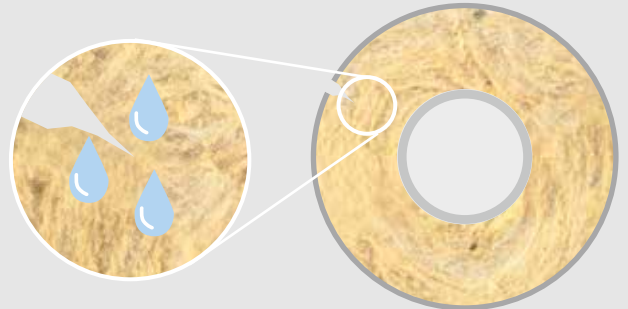
Open-cell mineral fibre
Vapour barrier is restricted to a thin, easily damaged aluminum foil
Mineral wool: $\mu \sim 1$



IF THE SURFACE OF THE INSULATION SYSTEM IS DAMAGED ...

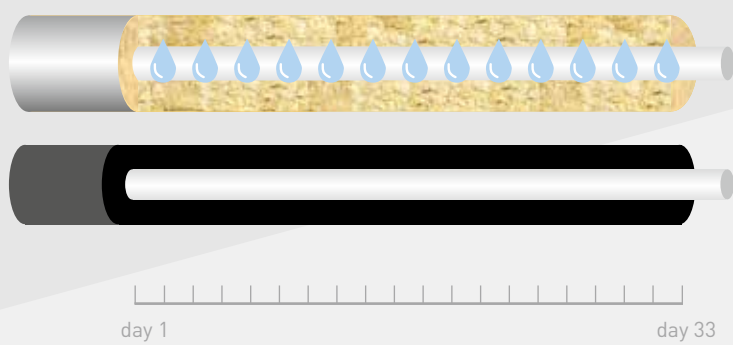


▶ Armaflex does not get damp



▶ humidity accumulates in the mineral wool

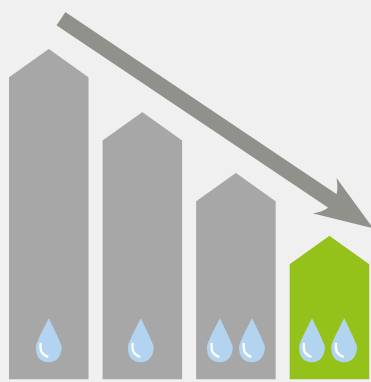
IF HUMIDITY ACCUMULATES IN THE INSULATION ...



CONDENSATION OCCURS

As shown in a test conducted by the German Fraunhofer Institute, pipes insulated with mineral fibre show condensation after just a few days. The pipes insulated with Armaflex, on the other hand, remain dry.

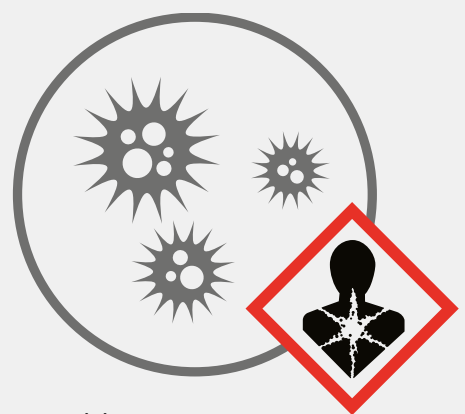
IF MOISTURE PENETRATES THE INSULATION MATERIAL ...



▶ energy efficiency decreases



▶ corrosion can occur under the insulation



▶ mould can grow



▶ high maintenance and repair costs are incurred

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AROUND THE WORLD

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