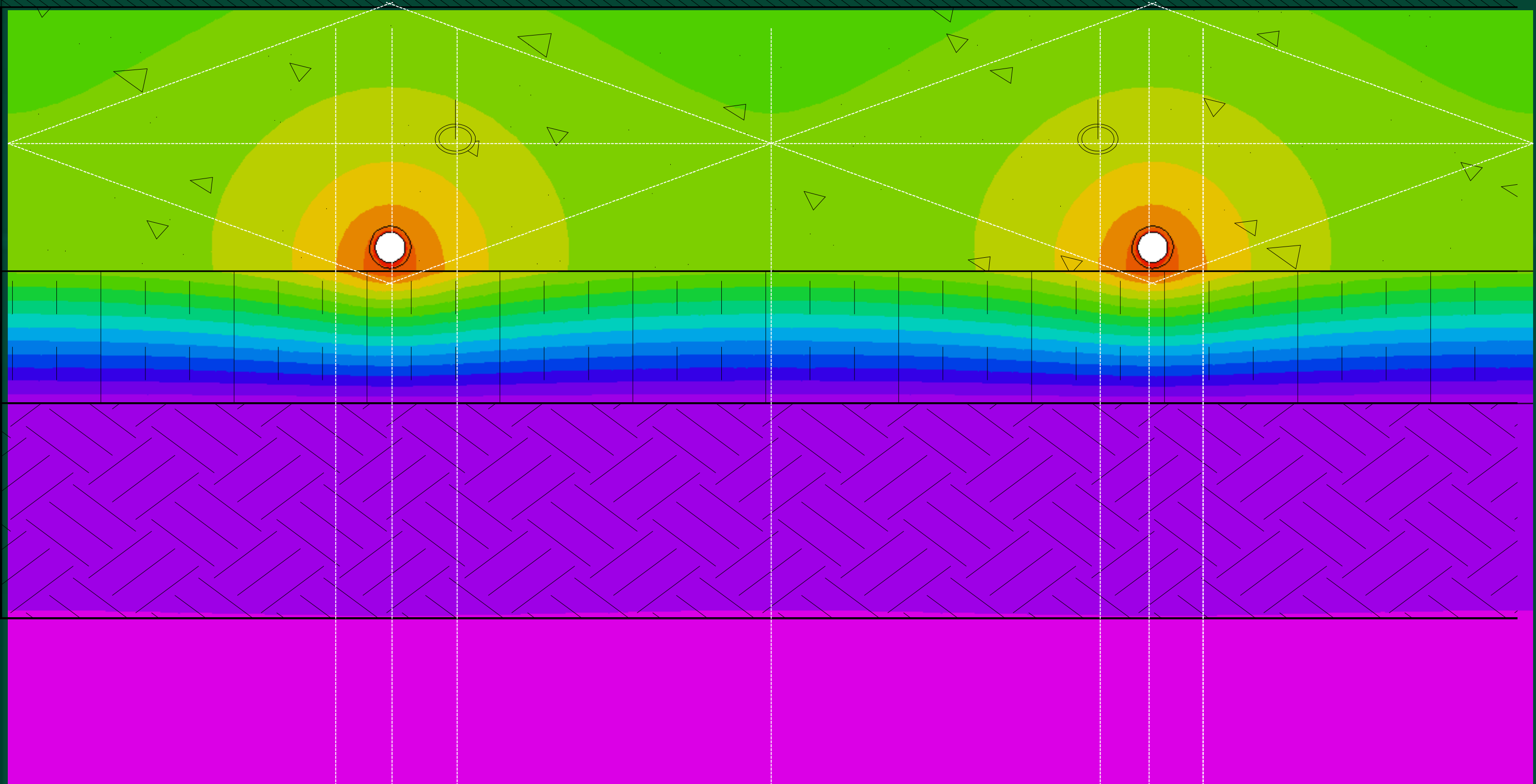
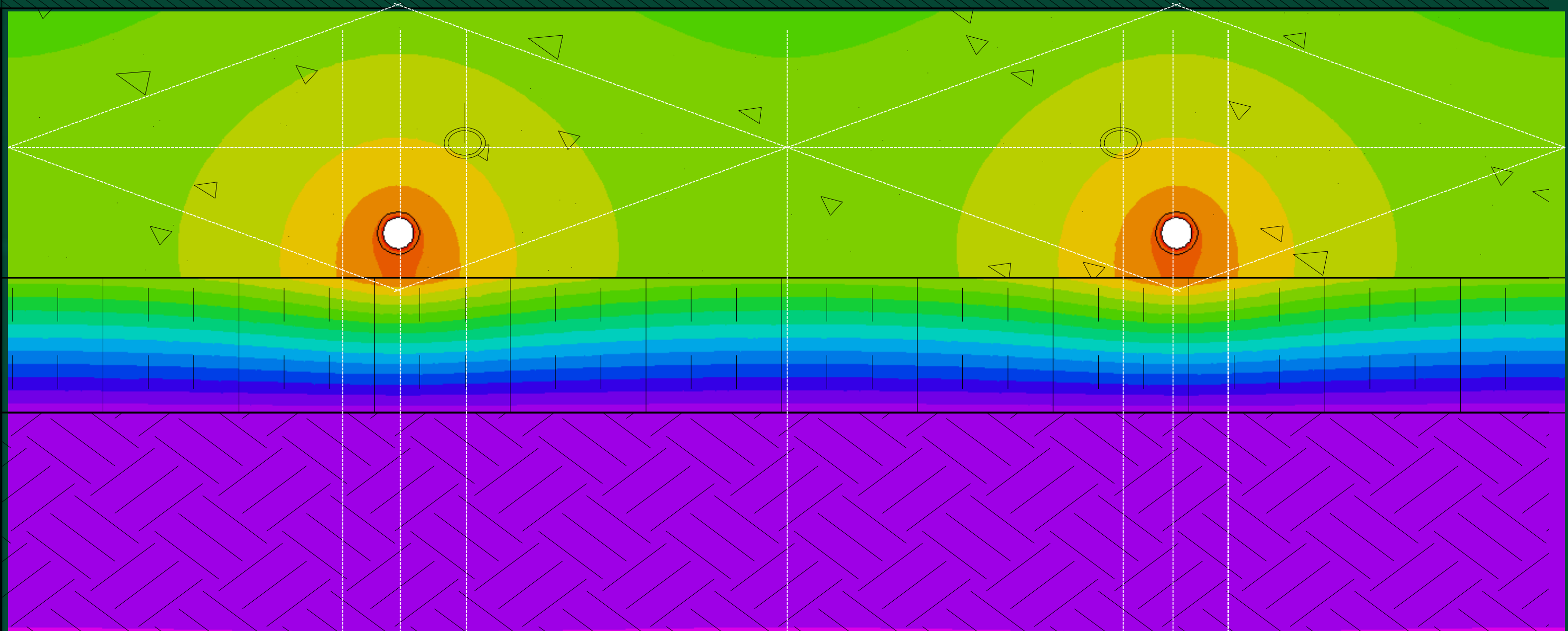


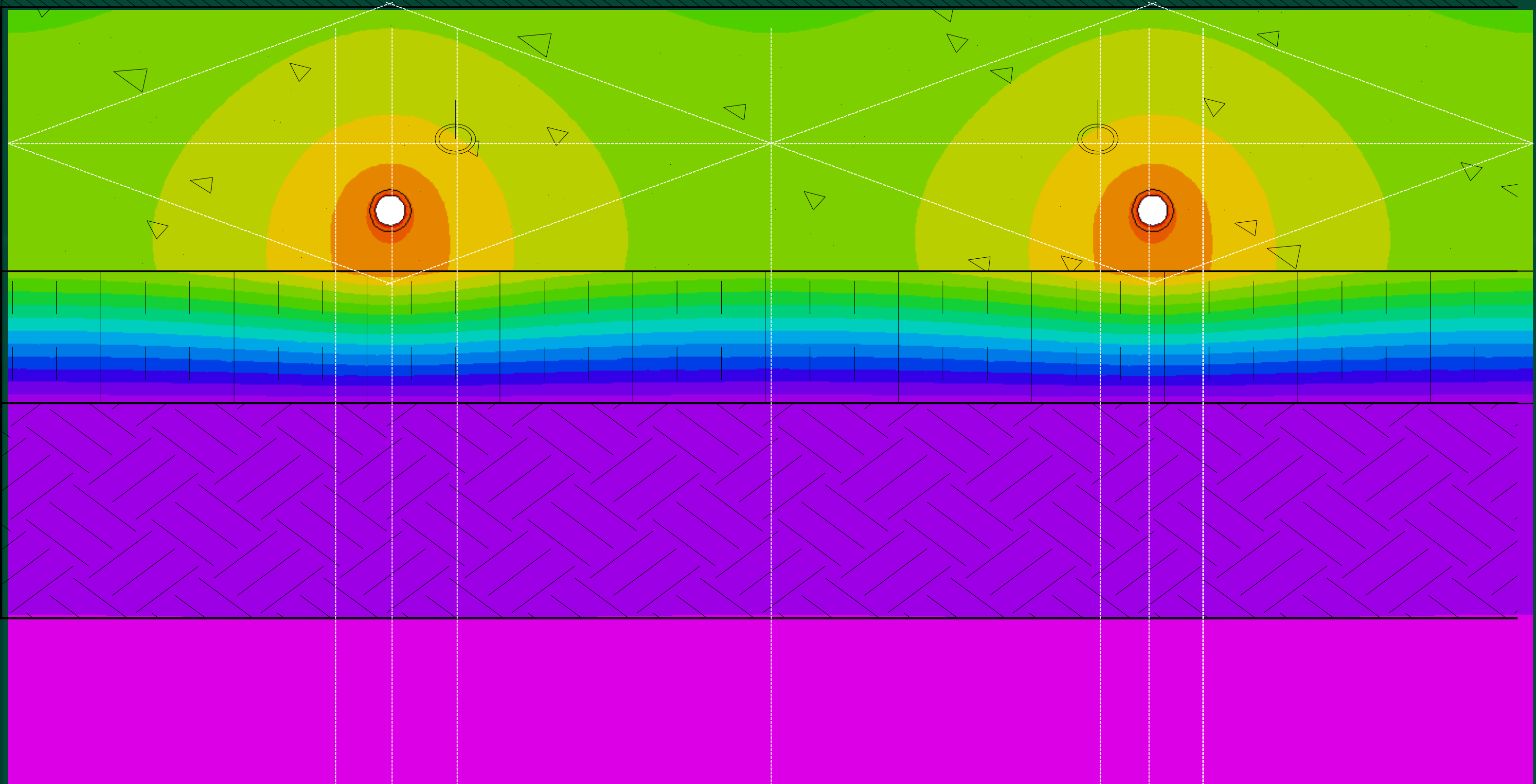
thermal diffusion, fluid temperature, back losses quality of surface temperature (efficacy)



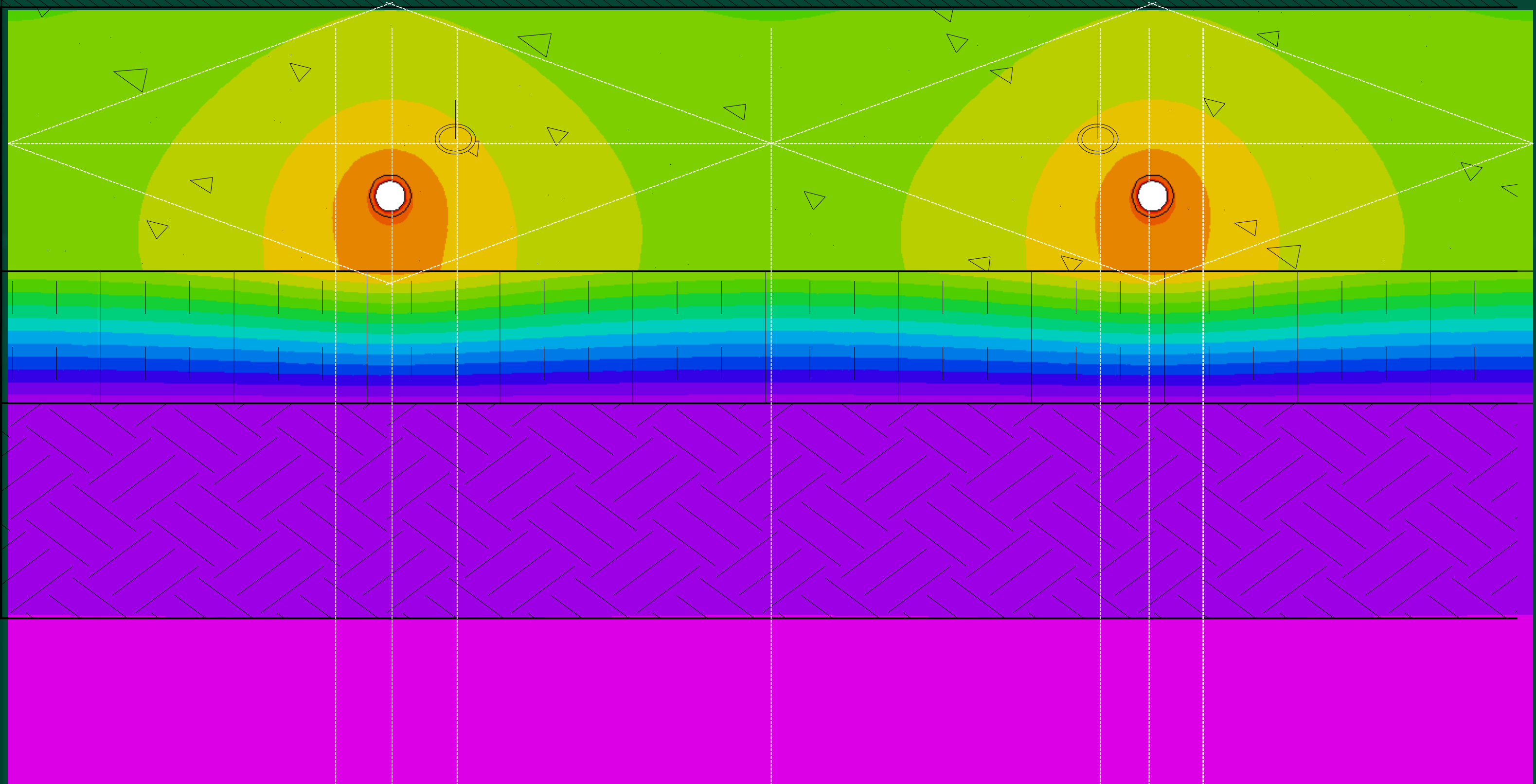
thermal diffusion, fluid temperature, back losses quality of surface temperature (efficacy)



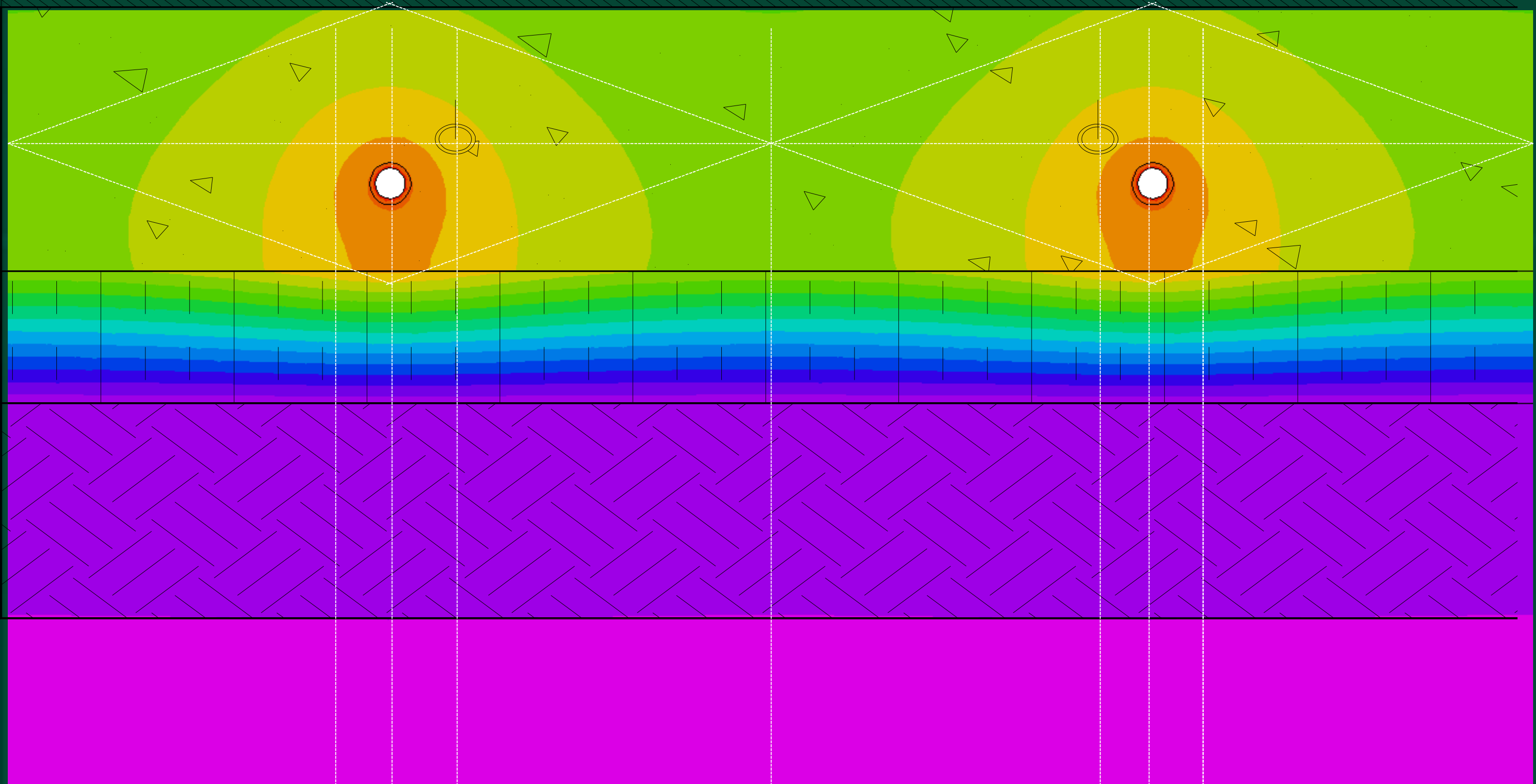
thermal diffusion, fluid temperature, back losses quality of surface temperature (efficacy)



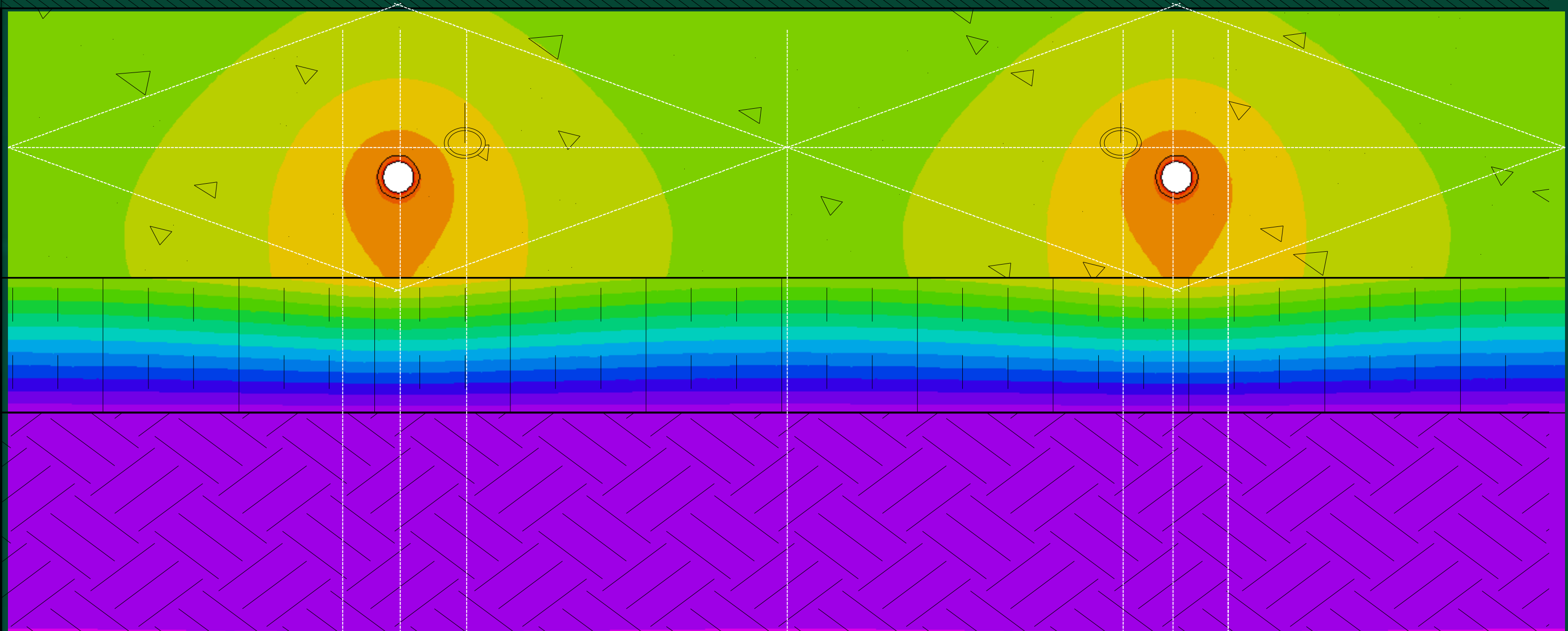
thermal diffusion, fluid temperature, back losses quality of surface temperature (efficacy)



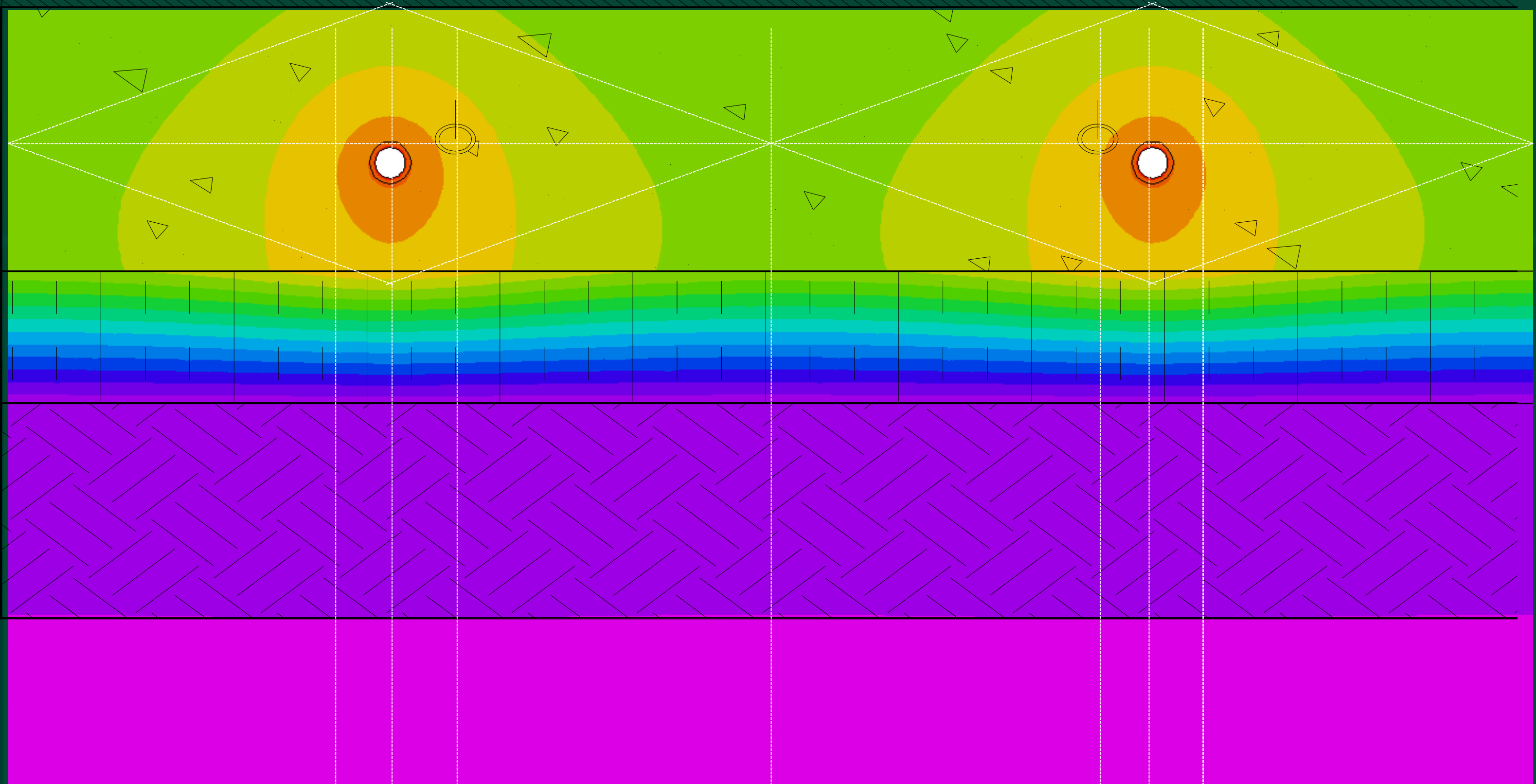
thermal diffusion, fluid temperature, back losses quality of surface temperature (efficacy)



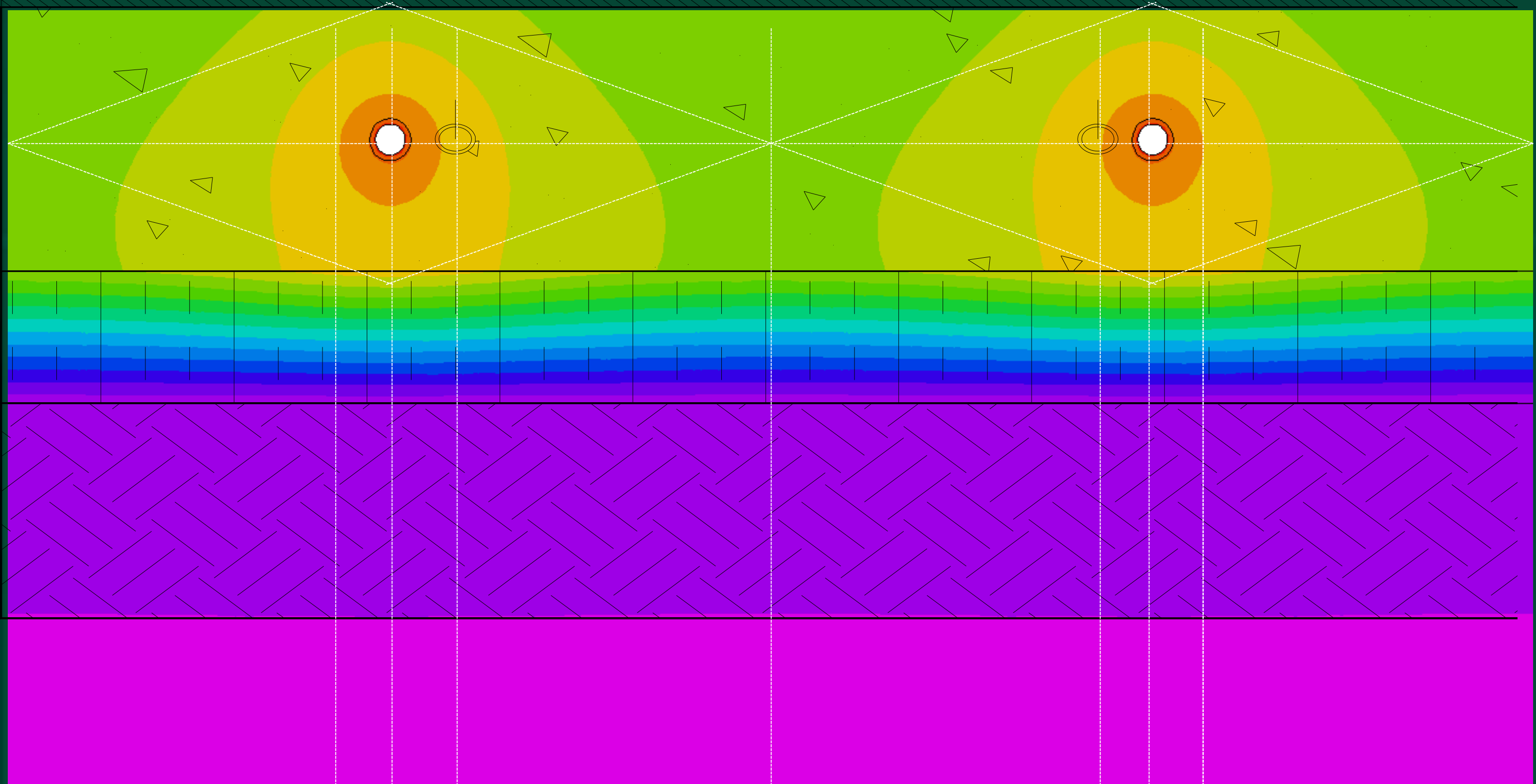
thermal diffusion, fluid temperature, back losses quality of surface temperature (efficacy)



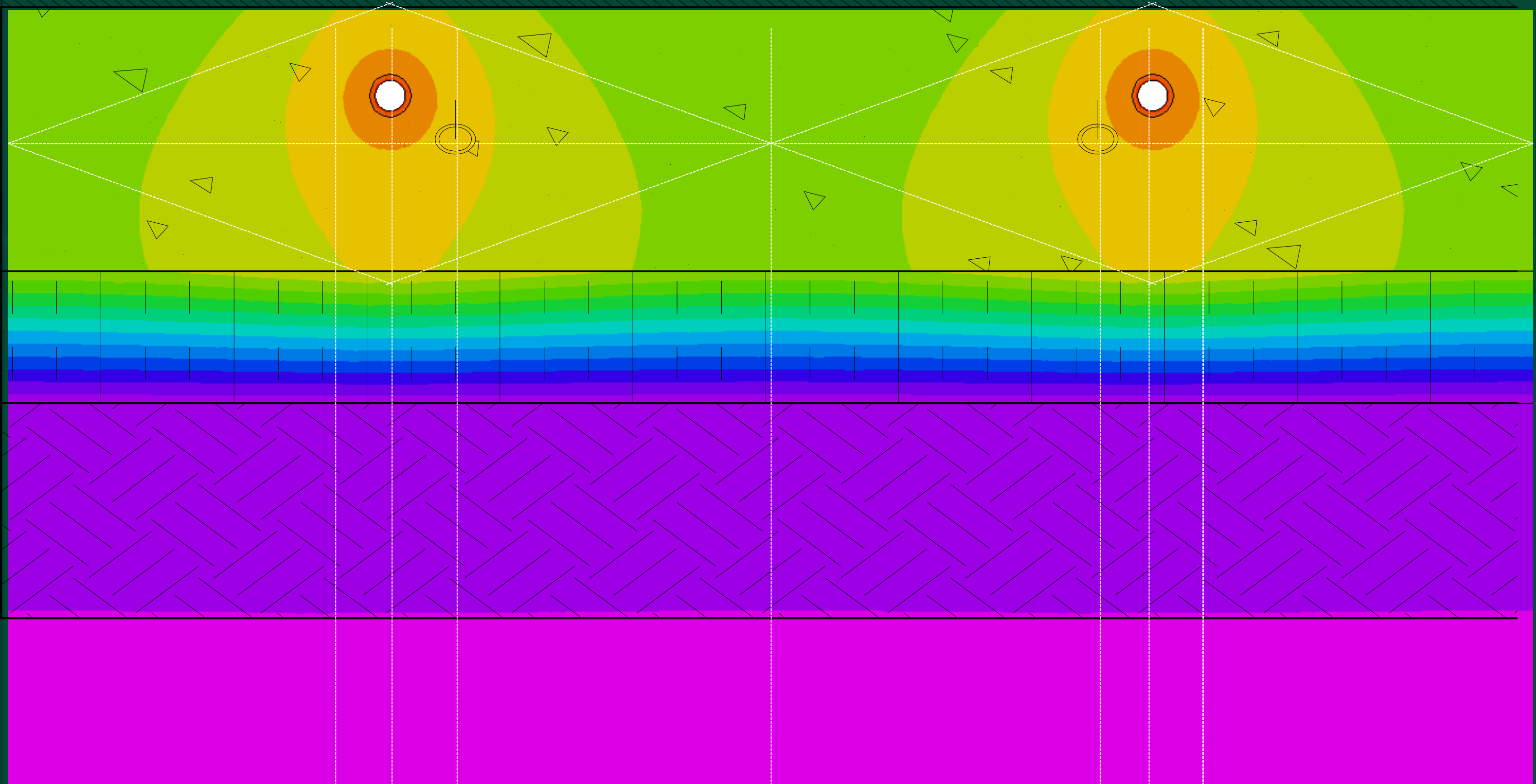
thermal diffusion, fluid temperature, back losses quality of surface temperature (efficacy)



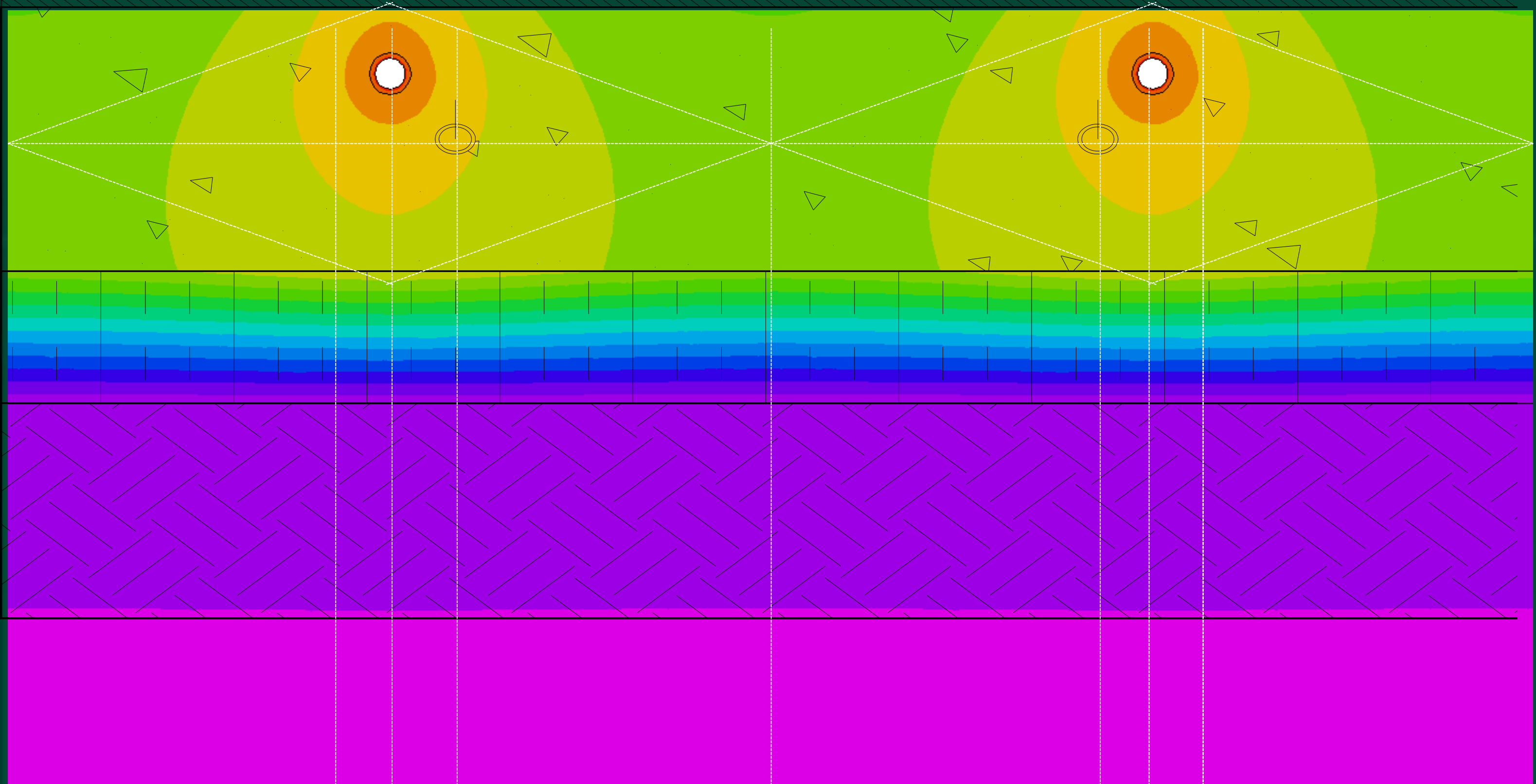
thermal diffusion, fluid temperature, back losses quality of surface temperature (efficacy)



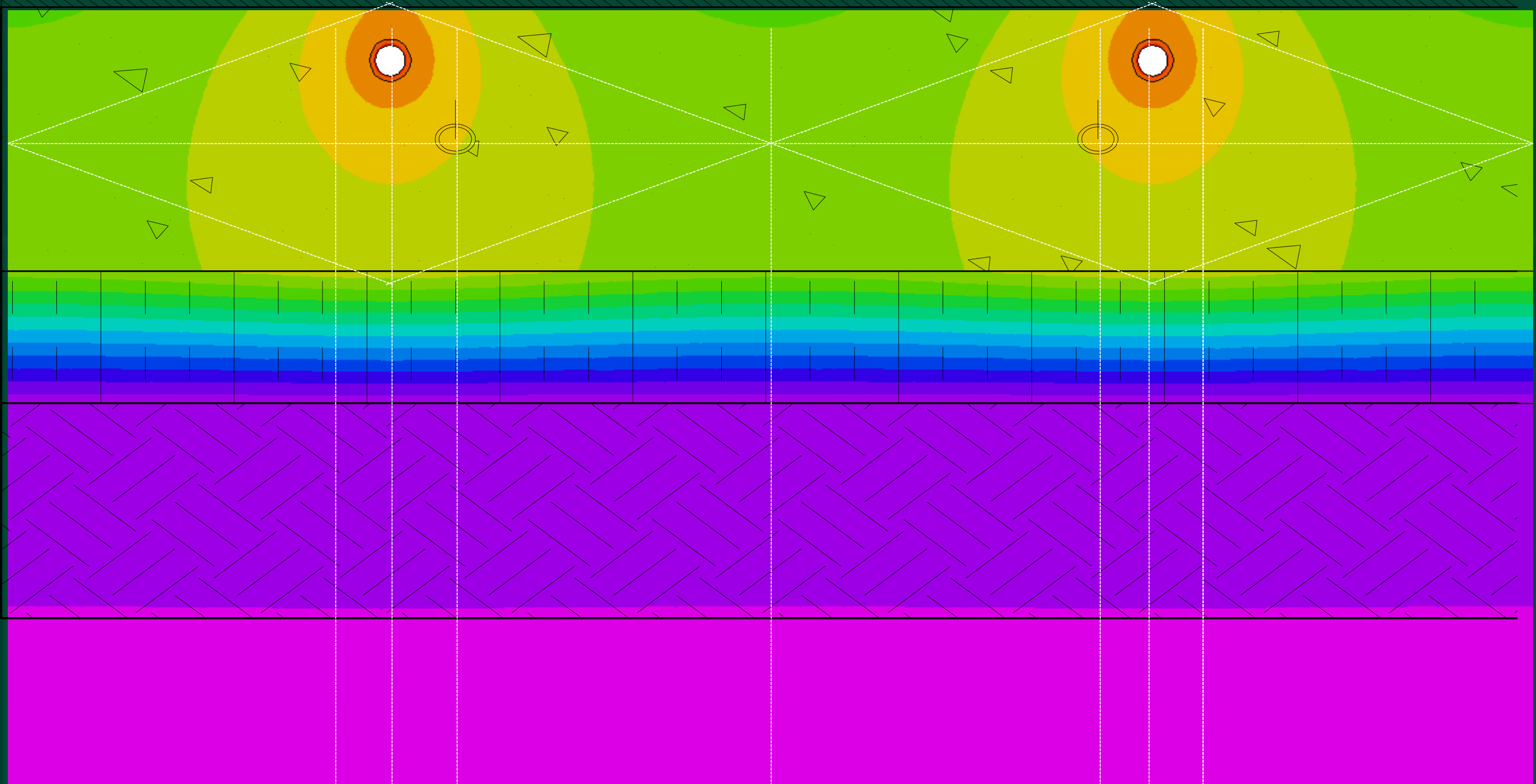
thermal diffusion, fluid temperature, back losses quality of surface temperature (efficacy)



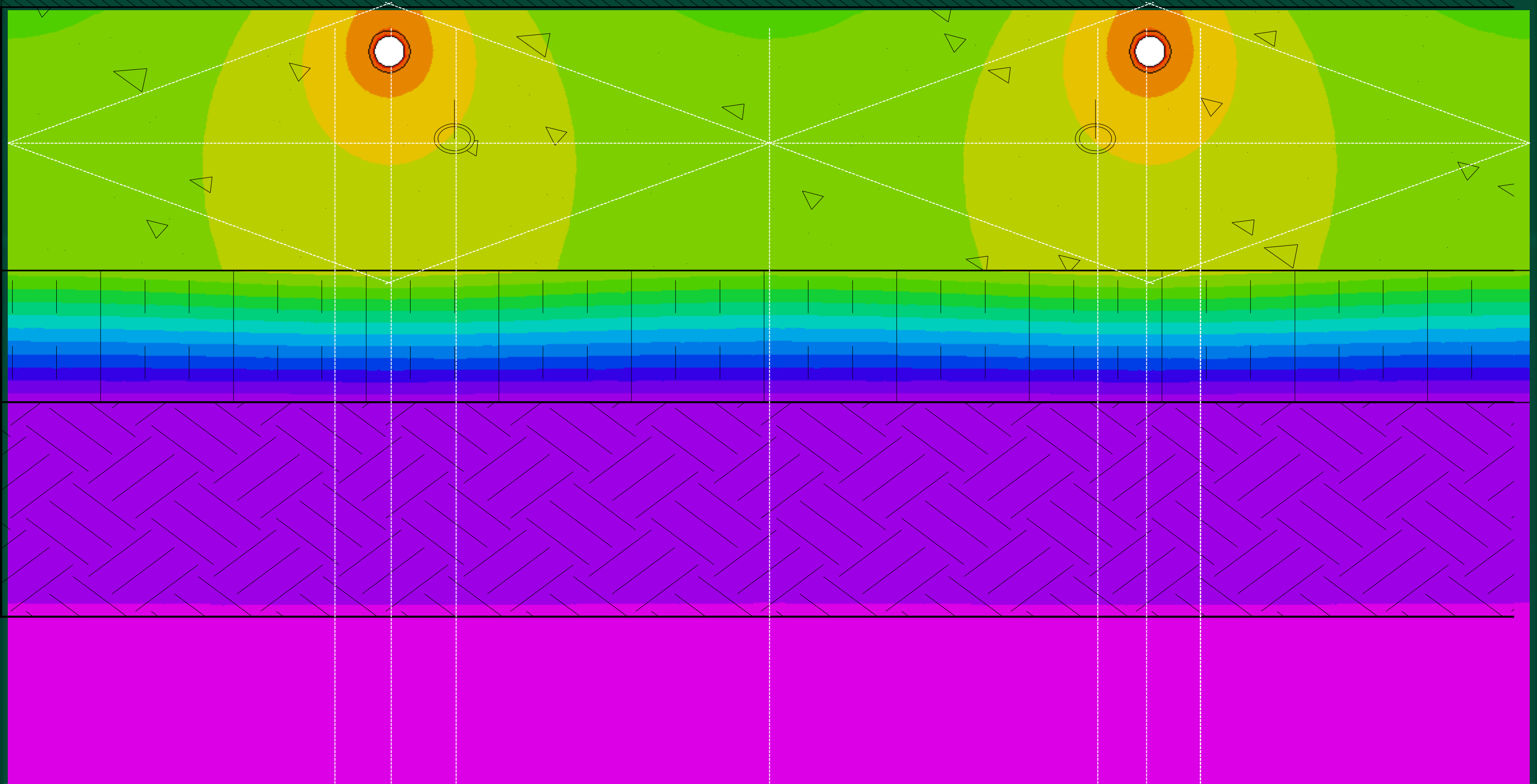
thermal diffusion, fluid temperature, back losses quality of surface temperature (efficacy)



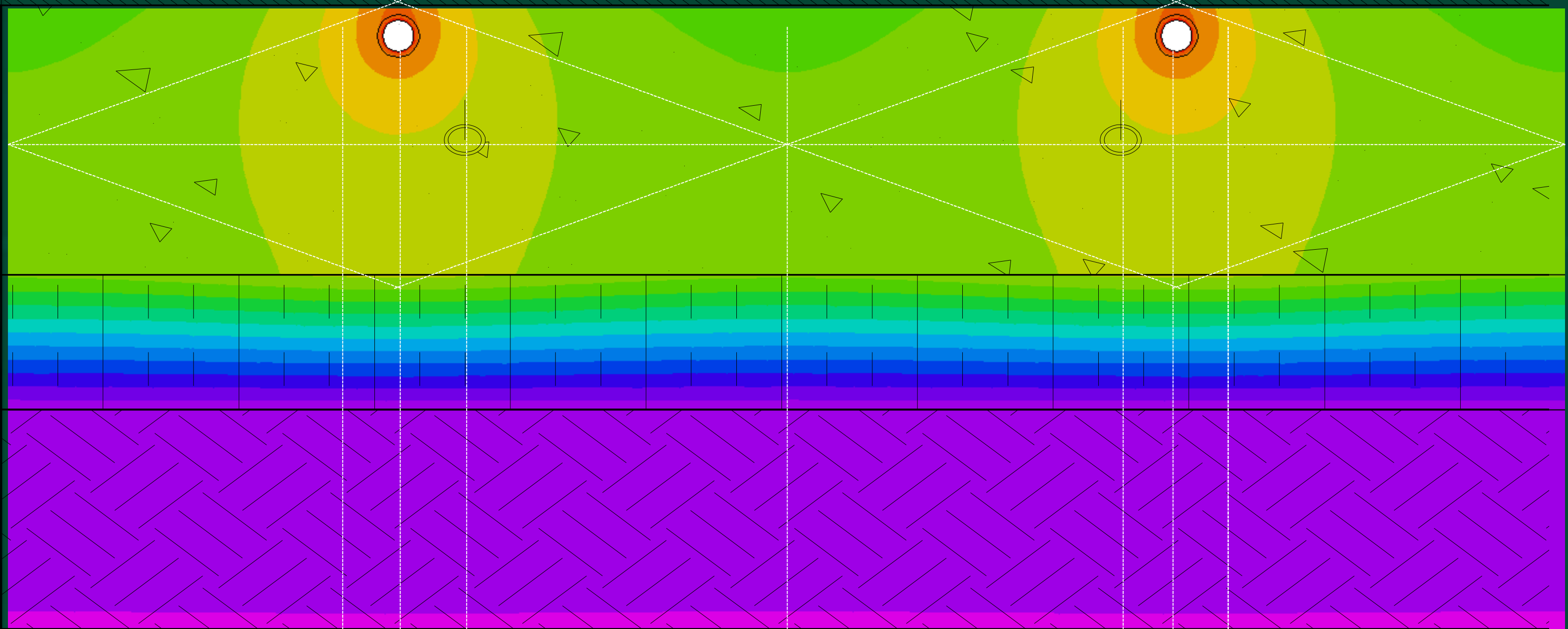
thermal diffusion, fluid temperature, back losses quality of surface temperature (efficacy)



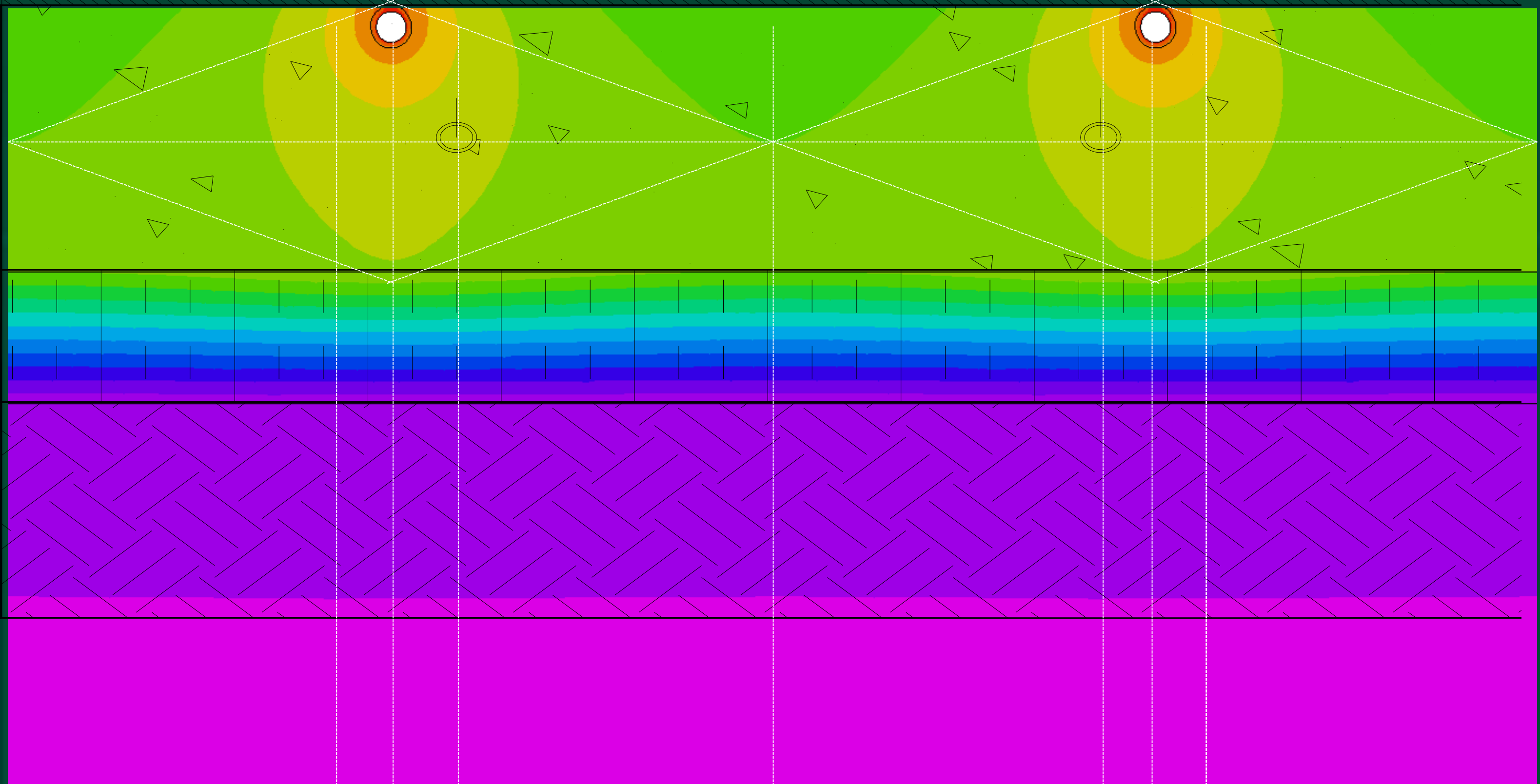
thermal diffusion, fluid temperature, back losses quality of surface temperature (efficacy)



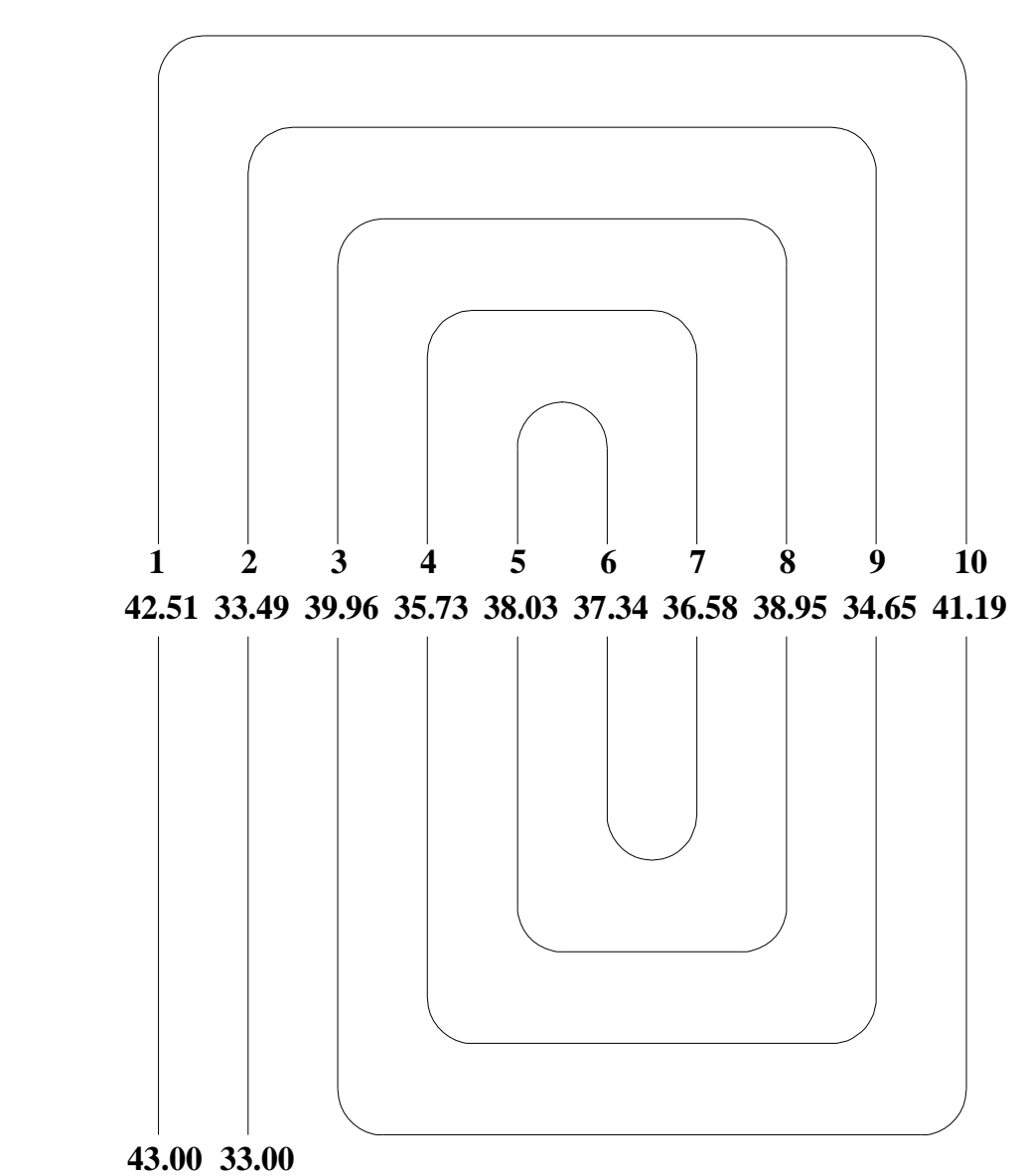
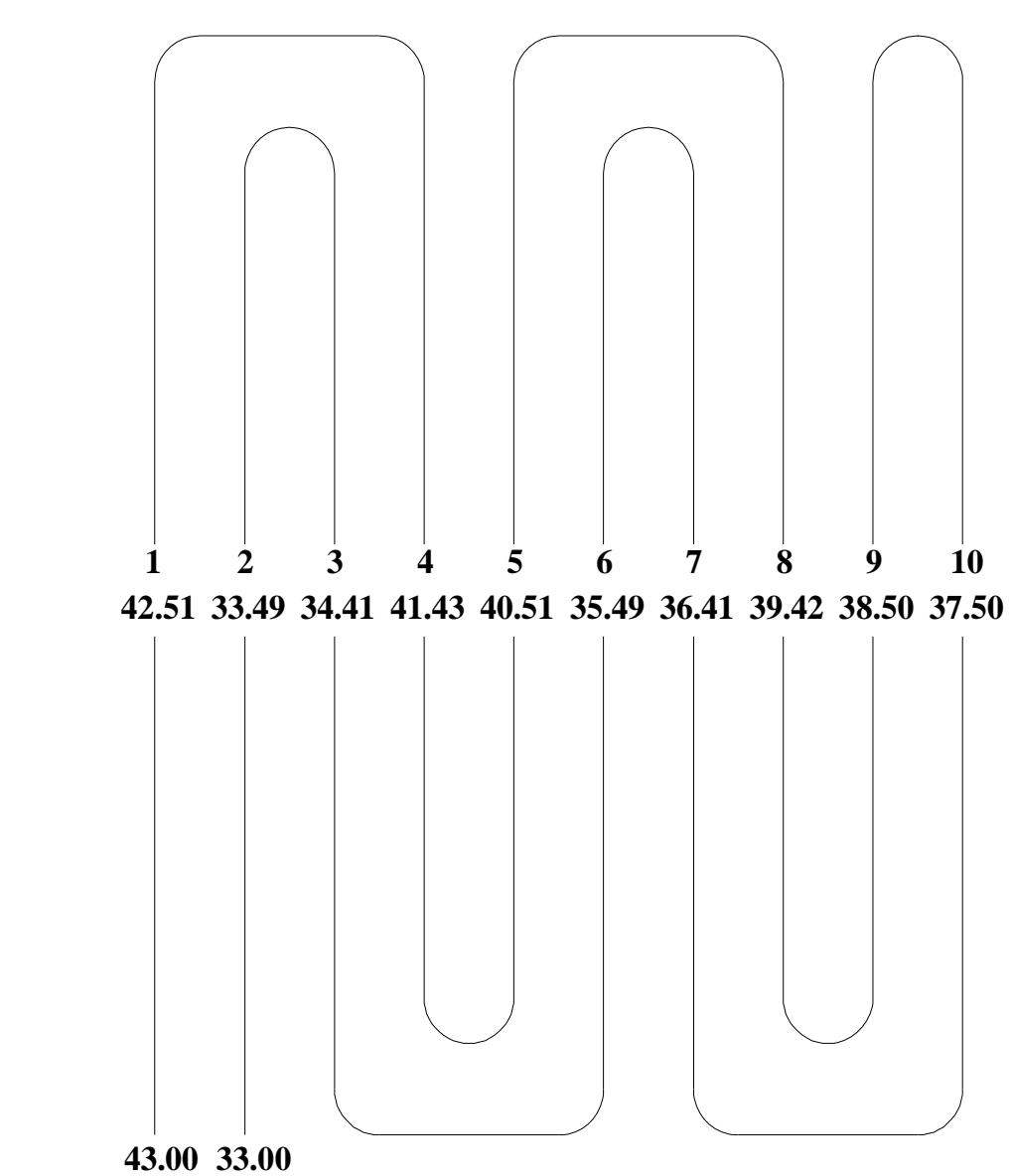
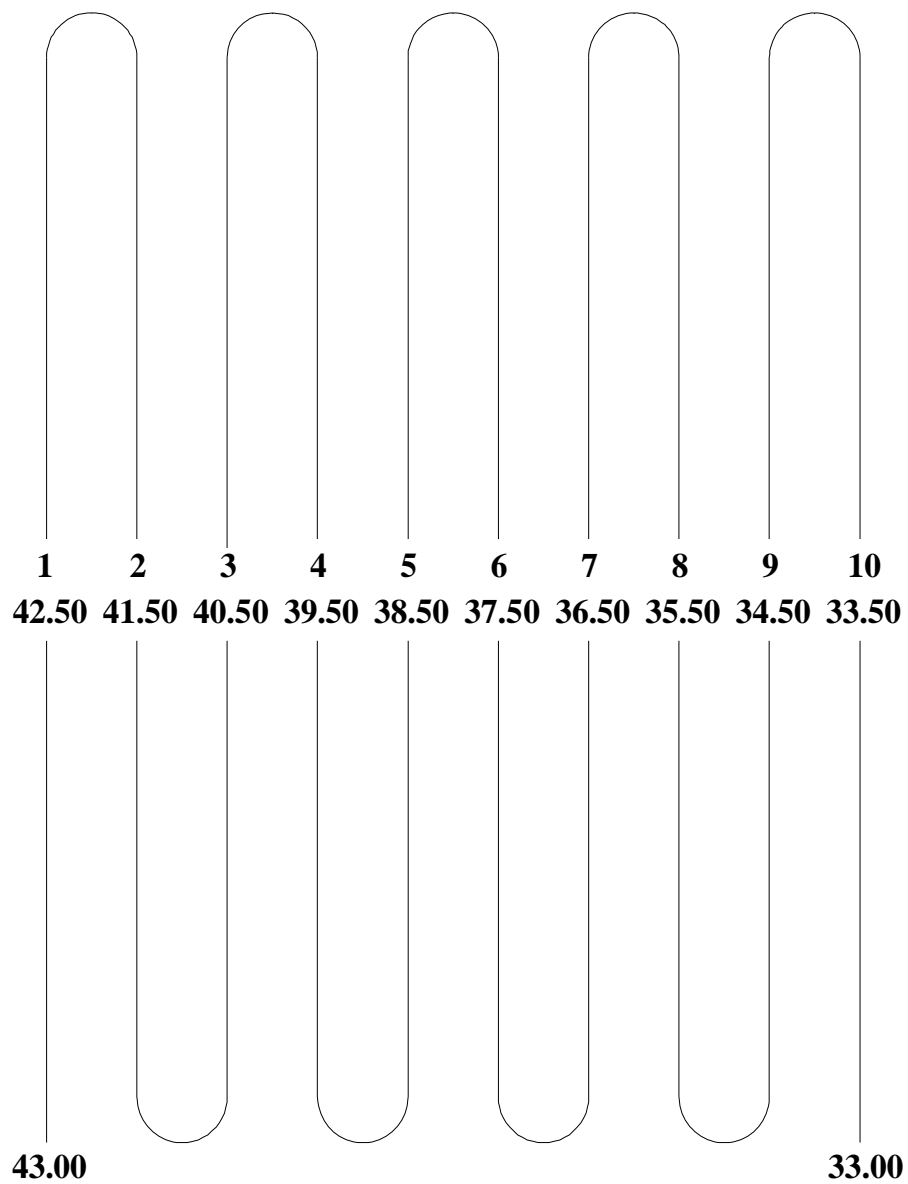
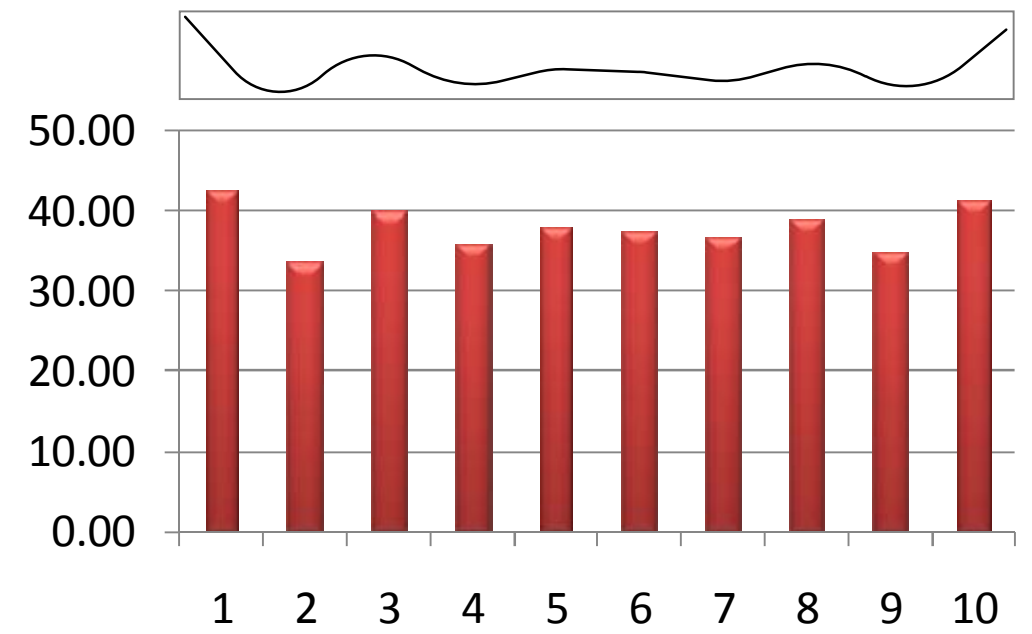
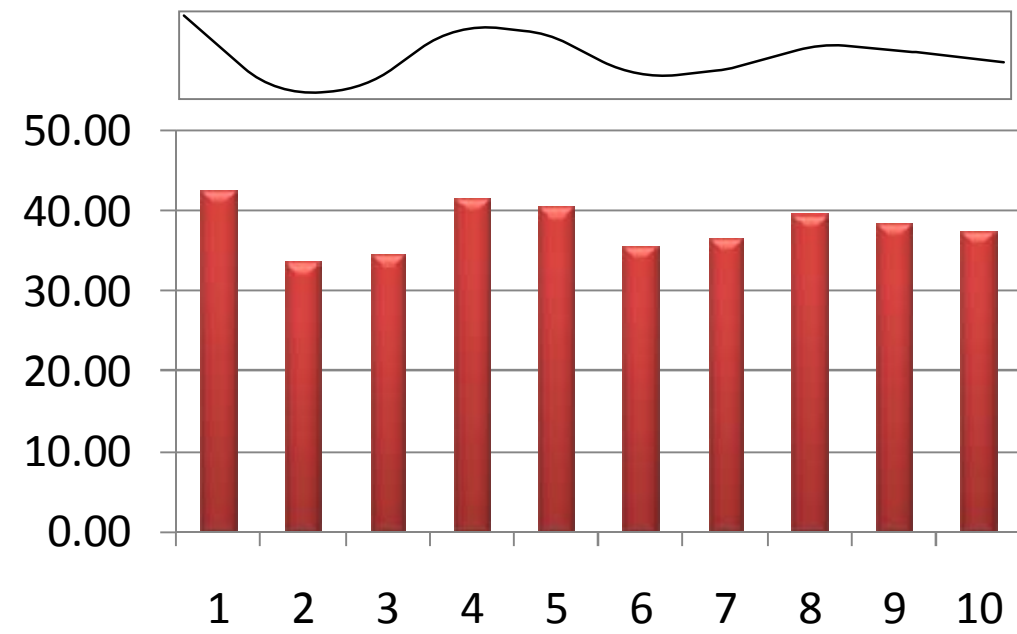
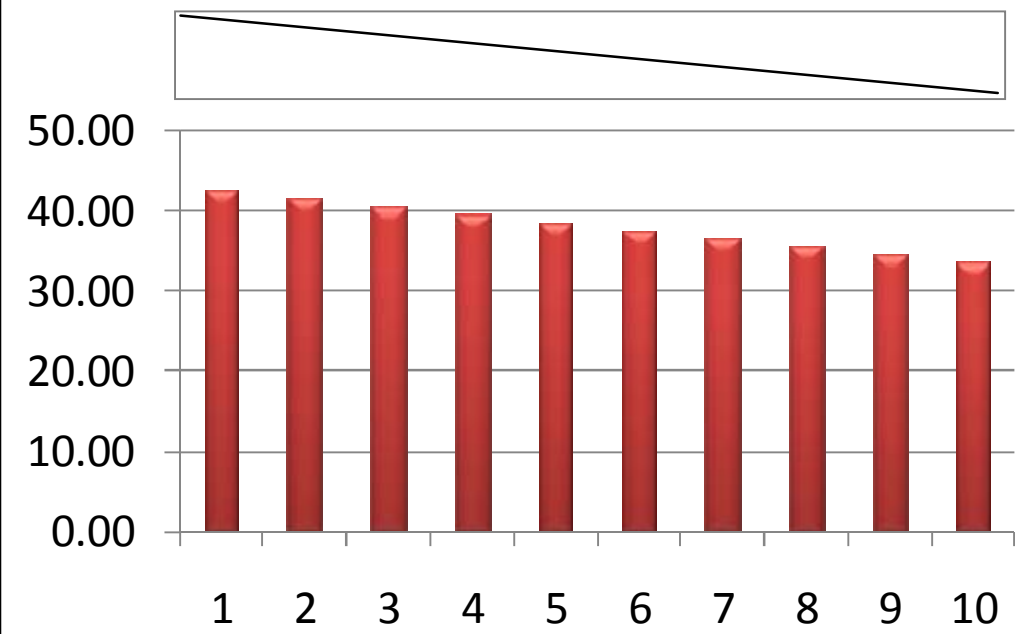
thermal diffusion, fluid temperature, back losses quality of surface temperature (efficacy)



thermal diffusion, fluid temperature, back losses quality of surface temperature (efficacy)



Internal fluid temperature profile @ 10 °C Δt (43°C to 33°C), distributed proportionally over a 76m floor heating loop spaced at 300 mm o.c.



Serpentine

Double Serpentine

Counter Flow

thermal diffusion, fluid temperature, back losses quality of surface temperature (efficacy)

Quality of the floor surface temperature (efficacy) as a function of tube patterns
heating examples - top to bottom: serpentine, double serpentine, counterflow

