

***CONDITIONS REQUIRING CEILING DIFFUSER INSULATION***

In some cases it may be necessary to insulate a Rickard Ceiling Diffuser from condensation. The conditioning of a space to ensure comfortable room conditions will typically prevent any likelihood of condensation occurring on the surface of a diffuser.

In cases where the ceiling void is open to warm, high humidity air i.e. when the ceiling void is exposed to air from outside the building and the diffuser surface is cold due to low temperature supply air, the dew point may be low enough to cause condensation on the back of the diffuser. In such cases the customer has the option to order diffusers with insulation. Rickard uses 3mm of closed cell polyethylene EVA foam, folded to create an air gap that is up to 70mm thick. The foam structure is applied to the back of the diffuser and creates insulation with an R value of approximately 1.

Diffuser controls are insulated from the cold diffuser surfaces by being mounted inside a plastic housing. This reduces the likelihood of condensation forming on the diffuser controls.



