



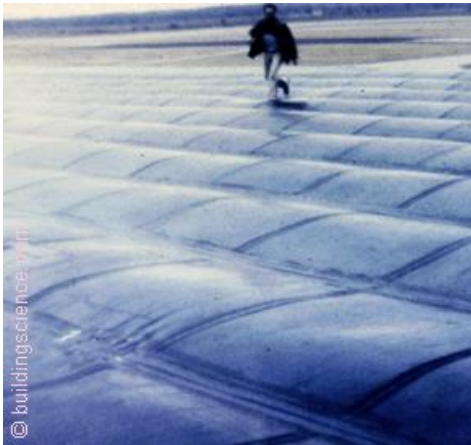
Per 2012 IECC Code (*required in Illinois and many other states*), an air barrier is required on all 6 sides of the building, which includes the roof.

Not all roof membranes are considered to be an air barrier and will need a separate air barrier under the roofing system.

Only fully adhered membrane roofs could be detailed for both a roofing membrane and an air barrier.

A mechanically fastened, ballasted, sloped metal, sloped asphalt or similar roofs are **NOT** considered an air barrier, and will need an additional component or two in order to be compliant with the code.

Mechanically fastened and ballasted roof systems, because they billow and pump building side air into the system, do not perform the required functions of a code compliant air barrier.



When a metal deck is used and we need an air barrier, a sheathing will be needed for the attachment of the air barrier in order to provide the required full support of the air barrier system. The required sheathing could be a glass-mat gypsum board or plywood. Note that this air barrier could typically act as a temporary roof or could act as the vapor barrier if properly detailed/specified.

When considering a mechanically fastened roof as a VE suggestion, or if suggested due to weather concerns; please make sure that the cost and temperature requirements of the additional air barrier and sheathing support are taken into account.

Also, the air barrier for the roof and the wall connection needs to be detailed properly...especially if there is a change in the original fully adhered system.

Please do not hesitate to contact your Quality Team if you have any questions.