METAL BUILDINGS

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Metal Buildings

Metal buildings are insulated by stretching vinyl backed fiberglass insulation over metal girts/purlins. The metal siding/roofing is attached over the insulation and fastened to the girts/purlins. At these connections, the insulation is compressed and providing very little R value. To avoid thermal bridging and improve the R value, a 2nd layer of insulation can be added over or between girts. To reduce thermal bridging at girts/purlins, install thermal spacer blocks.

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Fiberglass Installation Over Purlins

Fiberglass insulation that is draped over purlins should be installed perpendicular to the purlins. The taped seams of the insulation should also run perpendicular to purlins instead of leaving long runs of unsupported seams.

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Vapor Retarder

The vapor retarder should be installed facing the inside of the building. “Sag & Bag” installations leave purlins exposed and require the vapor barrier seams to be taped. Install full depth insulation between purlins with a continuous vapor retarder that covers purlins leaving no or few seams to tape.

Envelope

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Notes: