



Engineering Technical Bulletin

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Factory Mutual Global Approval of EM eco-FICIENT® Insulated R Panel as Class 1 Panel Roof

<u>Trade Name:</u>	eco-FICIENT® Insulated R Panel
<u>Size:</u>	Minimum 24-ga. (0.0225 in, 0.43 mm) thick prefinished (optional) stainless, galvanized or Galvalume exterior steel facers and minimum 26-ga. (0.0170 in, 0.43 mm) thick prefinished (optional) stainless, galvanized or Galvalume interior steel facers with 1.5-6 inches (38-150 mm) thick foam core.
<u>Supports:</u>	Minimum 16-ga. (0.0568 in., 1.44 mm) steel supporting members with minimum yield strength of 50 ksi (345 MPa) yield strength.
<u>Application:</u>	Secured as described below to structural supports a 16-ga. (0.0598 in, 1.5 mm). A minimum length on ½ in. (13mm) of threaded portion of screw must penetrate underside of purlin of Galvalume coated steel or painted Galvalume steel having a minimum yield strength of 50 ksi (345 N/mm ²).
<u>Hail Rating:</u>	Class 1-SH.
<u>ASTM E 108:</u>	Class A noncombustible deck at maximum 5 in 12 slope.

Construction #1: Insulated R Panel, minimum **24-ga.** (0.0225 in., 0.43 mm) exterior facer, minimum **26-ga.** (0.0170 in., 0.43 mm) interior facer, maximum **36 in.** (991 mm) wide are secured to minimum **16-ga.** (0.0598 in., 1.50 mm) steel supporting members, spaced a maximum **5 ft.** (1.5 mm) o.c., with stainless steel ¼-14 Type B 304 self-tapping fastener with 1 in. (25 mm) diameter bonded washer driven through holes predrilled with a 3/16" (4.8 mm) diameter drill bit. Panel side laps secured with ¼-14 x 7/8 in. Lap Tek at 20 in. (510 mm) on center. **Meets Class 1-105.** Assembly Number-340564-0-0.

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