



Engineering Technical Bulletin

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Factory Mutual Global

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

Trade Name:

eco-FICIENT® Insulated R Panel

Size:

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.

Supports:

Minimum 16-ga. (0.0568 in., 1.44 mm) steel supporting members with minimum yield strength of 50 ksi (345 MPa) yield strength.

Application:

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/mm²).

Hail Rating:

Class 1-SH.

ASTM E 108:

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 m) 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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