



Engineering Technical Bulletin

No. 300-04-10

April 10, 2015

FACTORY MUTUAL GLOBAL

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

MBCI

Trade Name: eco-FICIENT Insulated R Panel.

Size: 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 cores.

Supports: Min. 16-ga. (0.0568 in., 1.44 mm) steel supporting members, min. 50 ksi yield strength.

Application: Secured as described below to structural supports min. 16-ga. (0.0598 in., 1.5 mm). A min. length on ½ in. (13 mm) of threaded portion of screw must penetrate underside of purlin of Galvalume coated steel or painted Galvalume steel having a min. yield strength of 50 ksi (345 N/mm²).

Hail Rating: Class 1-SH.

ASTM E 108: Class A noncombustible deck at max. 5 in 12 slope.

Construction #1: Insulated R Panel, min. 24-ga. (0.0225 in., 0.43 mm) exterior facer, Min. 26-ga. (0.0170 in., 0.43 mm) interior facer, max. 36 in. (991 mm) wide are secured to min. 16-ga. (0.0598 in., 1.5 mm) steel supporting members, spaced a max. 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. RoofNav Assembly Number – 340564-0-0.

Approval Report No. 3036092

Dated: April 6, 2011