

# Eco-panels

By Stefan Schumacher

MBCI's horizontal IMPs offer architects thermal and aesthetic advantages



As insulated metal panels (IMPs) gain traction in the construction market, MBCI is broadening its horizons with the newest member of its Eco-ficient family, the Grand H Series horizontal wall panel. Ideal for architectural applications, the Grand H Series provides a clean, rich and unique appearance for practically any project.

"The Grand H Series is another example of MBCI's commitment to innovation and to our customers," said Wayne Dickinson, president and CEO of MBCI. "By offering this horizontal insulated wall panel, we give designers an additional avenue to create a unique building envelope while still meeting energy code requirements."

When asked what led to the Grand H Series development, MBCI General Manager of Eco-ficient Brad Johnson spoke of the modern architect and the changing times.

"Between architects looking for building envelope materials that offer superior aesthetics for a moderate price and the continual evolution of energy codes, MBCI took the opportunity to develop a product line that fully addressed these demands."


The Grand H Series promotes energy-efficient sustainability. The panels provide increased thermal performance and achieve R-values of 7.69 per inch of insulation. They do not experience any significant thermal drift as is common with rigid board insulation. This is due to the metal exterior and interior skins combined with the closed cell structure. The foam insulation is CFC (chlorofluorocarbons) free and the metal coating pretreatment process is chromium free. In addition, the metal skins themselves contain a minimum of 25 percent post-consumer recycled material.

IMPs also qualify as continuous insulation and are excellent vapor barriers. This simplifies the construction process in attaining a continuous air barrier (CAB). The structure's CAB is important because it prevents outside environmental conditions from negatively impacting a building's energy performance.

According to Johnson, horizontal IMPs are ideal for all types of structural applications, from conventional to metal building construction. "The flexibility to use panels of different



widths, finishes and colors, combined with the ability to have continuous corners and extruded aluminum trim, offers architects a wide range of design options," Johnson said. The panels also allow the designer to mix both horizontal and vertical Eco-ficient panels of different colors on the same wall, creating an architectural kaleidoscope of different visual effects. These effects and designs are possible in part because all of the Eco-ficient panels available offer the same R-value per square inch of foam thickness and have all passed the same rigorous testing program.

In addition to the Eco-ficient Grand H Series, MBCI offers six other insulated wall panels and two insulated roof panels, all of which have achieved excellent test results for thermal resistance, air and water infiltration and fire. MBCI's Eco-ficient Grand H Series IMPs offer design and functionality versus design or functionality, giving the architect the best of both worlds. 

For more information about the Eco-ficient Grand H Series or MBCI, visit [www.mbc.com](http://www.mbc.com) or call (877) 713-6224.