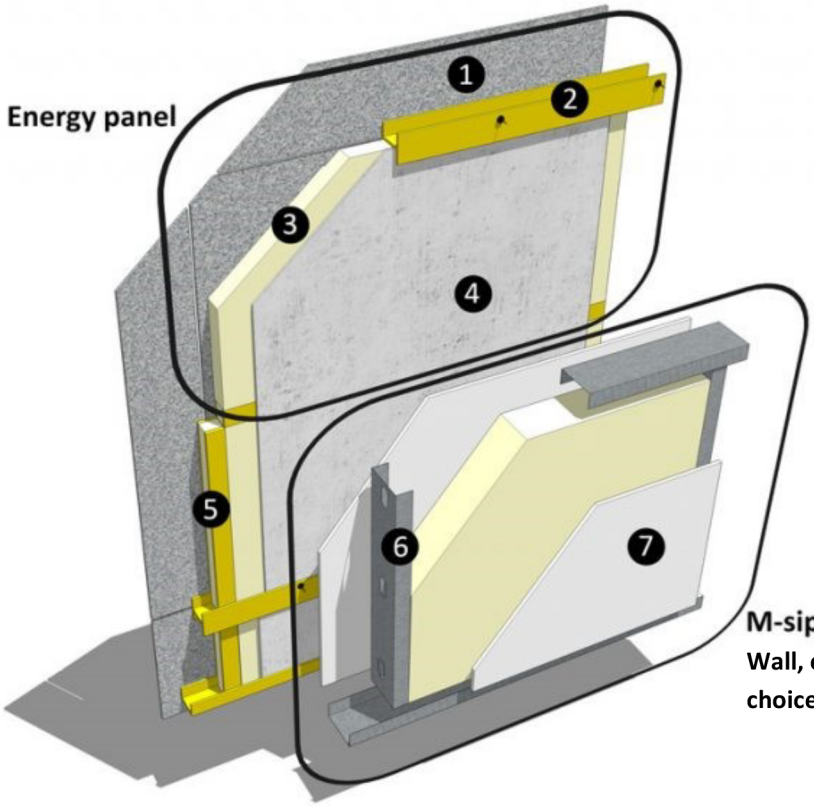
M-ENERGY PANEL

M-SIPs™ BY MAGWALL



1 Fibercement board
2 FRP profile
3 PIR foam
4 Calcium silicate board
5 Block spine
6 C steel studs
7 M4 board

BEAUTY AND EXCEPTIONAL PERFORMANCE

The M-Energy Panel combines a beautiful, high-end finish of natural stone cladding with the performance of a continuous insulated and ventilated rain screen. The panel provides R-Value of 15 (U Value.36) or 28 (U Value .20) and can be used for residential, commercial or high rise buildings. The panel meets or exceeds structural, thermal, acoustic and durability requirements and has exceptional fire resistance. It consists of inorganic materials with a high pressure bonded PIR core and a non-corroding fiberglass reinforced plastic (FRP) mounting system that will ensure airtightness over the lifecycle of the building and resist a broad range of chemicals. The facade will maintain it's aesthetic appearance for many years to come. Invest in the distinctive beauty and high performance of the M-Energy Panel today!

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M-ENERGY PANEL SYSTEM PERFORMANCE

Design Flexibility
The panel can be cut to size or shape. Standard Panels are 8 ft x 45".

Wide Range of Colors
Color through fiber cement in flat solid and natural soil colors

Installation Benefits
Fast vertical or horizontal light weight installation combining cladding and insulation in one step, creating a 50% faster installation time.

ICC-ES Evaluated structural M4 sheathing (ESR 3804)
Tested to Can/ULC S124 and K1 10 A2- s1 as a proven thermal barrier protection to foamed plastic

ICC-ES Evaluated Fiber Cement Cladding (ISL 1116) Complying with AC 90

Non Combustible
Class A PIR Foam Insulation is completely covered with non combustible materials

Fire Rating
One hour fire rating according to ASTM E-119/ Can/ULC S102

Fig. 1
Fiber Cement Installation to the FRP beams with visible Rivets and also factory bonded to the insulation core

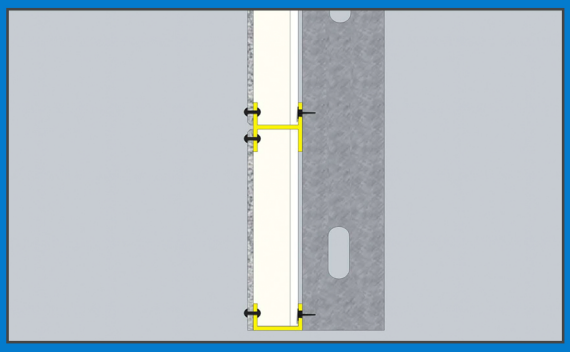

Fig. 2
Invisible Installation, the Fiber Cement panel is factory bonded to the insulation core