

A photograph of a modern kitchen interior with light wood flooring, white cabinetry, and a black refrigerator. The text is overlaid on the image.

Faster and simpler way to achieve a higher quality occupant experience

Megaacrete Power Floor

Lightweight Rigid Sub-Flooring

Megaacrete Power Floor delivers a high-quality occupant experience and long-term durability without the delays and mess of a poured gypcrete or concrete floor. These lightweight precast autoclaved aerated concrete (AAC) panels attach directly to both wood and steel joists or trusses and are immediately ready for final floor finishes making construction fast and simple. The fire resistance and resilience from moisture issues provide owners with decades of hassle-free performance.

Improved Occupant Experience

Home owners and real estate developers understand that building design and the materials selected for a project can have a significant impact on the comfort, enjoyment, and overall experience of building occupants.

Power Floor provides people with the luxury feel of walking on a solid concrete floor and the comfort of having less noise transmission from space to space. Floor assemblies with sound transmission class (STC) of up to STC-60 and impact insulation class (IIC) up to IIC-78 are available. Best of all, the bouncing, sagging,

and squeaks common with conventional wood decking is completely eliminated with AAC floor decking.

Increased Safety and Durability

Power Floor presents a significant upgrade to wood decking with or without a poured floor topping. Conventional wood floor decking is commonly exposed to moisture for weeks and months causing the wood to degrade, warp, and sag even before the building is completed. By the time the building is dried-in, the floors often look and feel completely weathered.

Over time, the wood decking continues to degrade which becomes obvious to building occupants who feel the sags and hear the squeaking and popping of the floor as they walk on it. The long-term value of a building with wood floor decking only drops with time.

AAC panels are also completely non-combustible providing an additional layer of protection for owners and occupants. Underwriters Laboratories (UL) listed and fire-rated assemblies are available with fire endurance ratings up to 1-1/2 hours where required.

OCCUPANT EXPERIENCE	SAFETY & DURABILITY	SIMPLER CONSTRUCTION
Provides quality feel of walking on solid concrete floor, eliminates bouncing and squeaking, and reduces sound transmission.	Fire resistant floor that does not degrade when wet and requires less maintenance and repairs over time.	One-step installation that is ready for floor finishes and eliminates prep time, delays, and mess of pouring a floor topping.

Simpler and Faster Construction

Power Floor is installed in one easy step which allows framing to proceed quickly without delaying other trades who need to keep working at the same time. There are no delays in the schedule for cleaning out the spaces, sealing up the floor, running hoses for the pump, and pouring the gypcrete or concrete floor topping. AAC floor decking is immediately ready for final floor finishes.

Compared to standard tongue-and-groove plywood floor decking, Power Floor is a significant upgrade in both occupant experience and long-term owner value. While slightly more expensive than plywood alone, AAC will provide better sound performance, reduced bouncing and squeaking, as well as significantly higher moisture and fire resistance.

A poured gypcrete topping applied over tongue-and-groove plywood decking is very common in commercial buildings but is often a frustratingly slow and messy process that can slow down construction schedules. This system still relies on wood decking which will always be susceptible to moisture degradation.

Cast-in-place concrete floors offer more structural capacity and are very durable, they are the most expensive floor system and the slowest to construct.

Power Floor is considerably lighter than both gypcrete and concrete floor systems (AAC=9 psf, 2" gypcrete=18 psf, 3" concrete = 35 psf). The additional structure required to carry this weight can quickly add to the cost of a building especially on larger projects.

Ideal Building Applications

Power Floor is ideal for any wood-framed or metal-framed building where occupant comfort and safety as well as low operations and maintenance (O&M) costs are essential requirements of building owners including single-family residential, multifamily, assisted living, student housing, office, and hospitality projects.

