



Armstrong World Industries and Integrated Environmental Solutions (IES) have partnered to integrate Templok® Energy Saving Ceilings into the IES Virtual Environment (IESVE), a leading energy-modeling software suite.

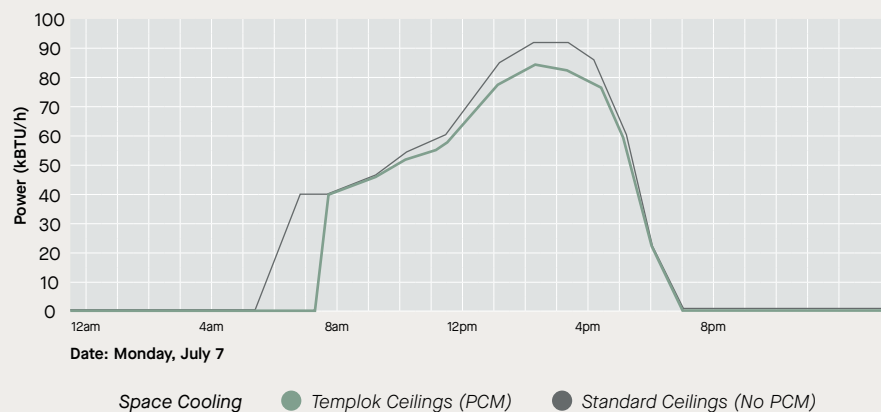
- Armstrong and IES have partnered to develop a thermodynamic model of Templok Phase Change Material (PCM), validated with laboratory data
- With PCM integrated into IESVE, the software enables accurate evaluation of the impact of Templok ceilings on building energy use, carbon emissions, operational costs, thermal comfort, and more
- This new software capability allows energy modelers to incorporate Templok ceilings as an energy efficiency strategy into their projects seamlessly, leveraging the extensive suite of analytical tools available within IESVE
- Validation of the new component involved precise PCM performance measurements using heat flow meters and extensive thermal tests conducted in a room-scale controlled chamber. A virtual model of the test chamber was created in IESVE to allow direct comparison between physical and simulated performance over 24-hour test cycles. The model calibration efforts will be detailed in an upcoming validation paper.

## IES Virtual Environment Fact Sheet

### LA Office Modeling Study

A modeling study using the new Templok ceilings featured in a Los Angeles office building showed significant heating and cooling energy savings. [Read the full study.](#)

### LA Office Study – Hourly Cooling Energy Savings with Templok



### About IES

IES is a global climate tech company delivering innovative technology solutions and consultancy services to decarbonize the built environment. Supporting energy-efficient, healthy and cost effective built-environments, IES technology provides those involved in the design, retrofit, and operation of buildings the information needed to make smarter, more sustainable decisions with confidence.

### June 2025 Launch

Templok® ceilings will be included in the June IESVE software release, representing a key milestone for Armstrong's sustainability initiatives and the adoption of Energy Saving Ceilings. The launch will be supported by user guides, case studies, and detailed simulation data.

