

# Vapor Seal<sup>TM</sup>

flexBOX

Industry  
Exclusive

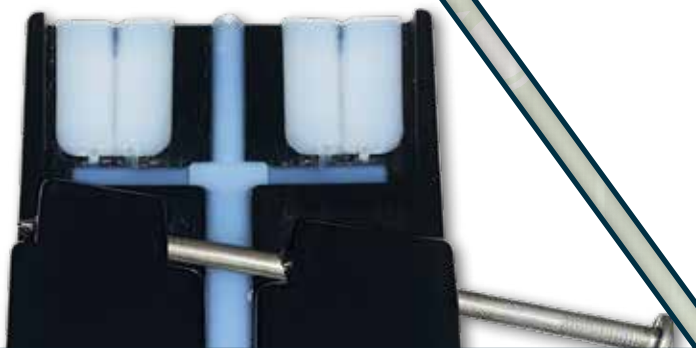
## New P-221NV

### High Efficiency - Nonmetallic - Air-Sealed Electrical Box

Vapor Seal products provide a solution to prevent air infiltration/air leakage on exterior walls where openings for electrical switch and receptacle boxes are required.

### Vapor Seal: Material & Labor Saving Features

With innovative products designed for the electrical contractor, Allied Moulded offers a complete line of wall and ceiling boxes for use in energy efficient homes to aid in sealing up the exterior walls per construction methods outlined in 402.4 of the 2018 International Energy Conservation Code and the upcoming 2021 OS4\* Standard.



***\*OS4 standard will set 2 CFM as the maximum allowable air infiltration/leakage.***

***Allied Moulded's P-221NV will reduce air infiltration/leakage by 70% to less than .75 CFM.***



**ALLIED  
MOULDED  
PRODUCTS, Inc.**

# Vapor Seal Air-Sealed Electrical Boxes

## Residential Building Envelope Tightness

One of the main components affecting residential construction changes is "Air Leakage" in the building envelope. The **IECC 2018** mandates building envelopes to be:

- Sealed with caulking materials or...
- Closed with gasket systems
- Joints and seams sealed or taped or covered with a moisture vapor-permeable wrapping material

## Areas for Air Leakage/Infiltration in Residential Building Envelopes

One of the main areas being addressed is the electrical wiring box penetrations (switches and receptacles). Boxes must be properly insulated around and behind along with openings being sealed/caulked closed and must be sealed to drywall and any vapor barrier system.

### Self-Sealing Elastomeric Knockouts

- Remove wiring and keep efficiency
- No need to caulk punchouts
- Easy to push wire through



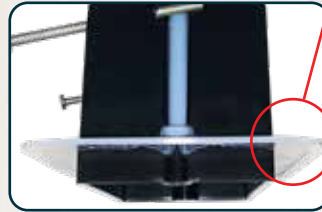
Wire Installed



Wire Removed

### Patent Pending Tapered Flange Design

- Air-tight seal against vapor barrier/drywall without the need for additional adhesive
- Creates seal between drywall and wall stud



Tapered Flange Design for adhesive-free fit.

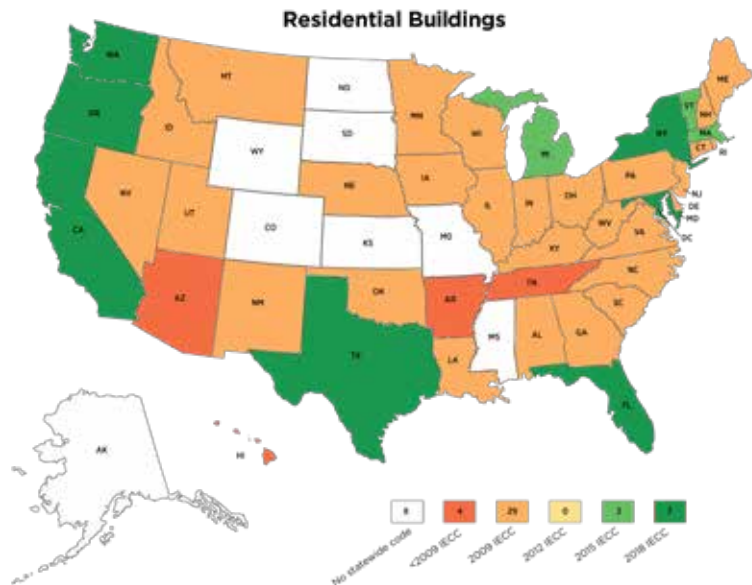
## As of June 2020

The current and projected status of energy codes and standards adoption is shown in the map to the right. Status is displayed for residential buildings for U.S. States and territories.

DOE tracks the adoption of energy codes across the U.S. for commercial and residential buildings. More information is available, including additional background on the methodology, as well as state-specific analysis and characterizations.

For up-to-date information on energy code adoption please visit the link below.

<https://www.energycodes.gov/status-state-energy-code-adoption>



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**Available Through:**