

# POLYCORE AG BOARD EXTRUDED POLYSTYRENE FOAM INSULATION



POLYCORE AG BOARD roofing underlayment is an extruded Polystyrene (XPS) foam insulation board fanfolded for easy installation on walls and roofs for post-frame and metal agriculture and utility buildings. The lightweight AG BOARD provides a waterproof surface that captures and channels moisture to the roof overhang areas for drainage.

The durable white special blend film on both sides improves the building's interior illumination, thus offering a benefit in structures designed for product and machinery storage, animal confinement, milk parlors, and other applications.



## BUILD GREEN WITH R.L. ADAMS PLASTICS

R.L. Adams Plastics supports initiatives that help preserve our environment, and we strive for environmental sensitivity in our manufacturing processes and in our products. R.L. Adams produces insulating foams that:

- contain no VOCs\*
- are formaldehyde-free
- are not a known food source for mold or insects
- are recyclable (extruded polystyrene)

\* Visit [www.goadams.com](http://www.goadams.com) for more information in the Building Products section under Environmental Benefits



**TABLE 1: FEATURES AND BENEFITS OF POLYCORE AG BOARD EXTRUDED POLYSTYRENE FOAM INSULATION**

Property and Test Method	Value
Thermal Resistance @ 1/4", ASTM C518 @ 75°F mean temp, ft <sup>2</sup> ·h·°F/Btu, R-value <sup>(1)</sup> , min.	1/4" = R-1
Water Vapor Transmission Rate (Perm)	1.8
Water Absorption (Max. % by Volume)	.01
Flame Spread <sup>(2)</sup> , ASTM E84	10
Smoke Developed, ASTM E84	200

(1) R means resistance to heat flow. The higher the R-value, the greater the insulating power.

(2) This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

Compliance: See ICC-ES Evaluation Report ESR-2142 Underwriters Laboratories, Inc. – File: R10128

CAUTION: This product is combustible. Protect from high heat sources. A protective barrier or thermal barrier may be required as specified in the appropriate building code. For more information, consult [www.goadams.com](http://www.goadams.com) or call R.L. Adams Plastics 1-800-968-2241 or contact your local building inspector.

**WARNING: Rigid foam insulation does not constitute a working walkable surface or qualify as a fall protection product.**

Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. While POLYCORE extruded polystyrene foam insulation (XPS) is made of synthetic materials that are recognized as not providing a food source for insects, fungus mold or mildew. No material supplier including Dow can give assurance that mold will not develop in any specific system.

## INSTALLATION GUIDELINES

### How to Install Over Roof Purlins

Install AG BOARD parallel or perpendicular over roof purlins using the following steps:

1. After trusses are set, make a final check to ensure the trusses have pulled out of line.
2. Start at one end of the roofing framework to begin installation of the AG BOARD panels. AG BOARD can be installed using one of the following methods:
  - A. To install parallel to the positions so that no seams are visible from the interior of the building. The 4' width of the AG BOARD is attached to the purlins that run parallel to the roof ridge (typically spaced on 2' or 4' centers). AG BOARD can be attached to wood purlins using staples that penetrate the purlin a minimum of 1/2" or can be attached to metal purlins using a minimum 1/2" long self-tapping screws. The fanfold seams can be butted together and taped to prevent condensation from developing.
  - B. To install perpendicular to the purlins, AG BOARD is installed by aligning the panels perpendicular to the purlins so that the length of the panel extends towards the roof ridge and each panel is located on a purlin (every 2'). AG BOARD can be attached to wood purlins using staples in the same manner as described in the parallel installation method.
3. Continue installing along the roof using consecutive AG BOARD fanfold panels, while adjusting panels to ensure that all seams are overlapped or butted together and taped.

### How to tape seams

1. ALL AG BOARD seams should be butted together (Use Dow Weathermate construction tape or comparable white construction tape to maintain color continuity). **DO NOT USE DUCT TAPE.**
2. All surfaces should be clean and dry prior to installation of the tape in accordance with the tape manufacturer's instructions. Use a tape width that is sufficient to cover the seam between panels.
3. When applying the tape, use a flat edge tool to press the tape against the AG BOARD to ensure a tight seal.

### How to Install On Sidewalls.

Install AG BOARD vertically or horizontally on a sidewall using the following steps:

- A. To install vertically
  1. Measure the length of the panel required and pre-cut each panel to the desired length.
  2. Install each panel starting with attaching at the top of the wall and proceed down the wall.
  3. Use 1/2" staples or self-tapping screws (for metal framing) to attach AG BOARD to the girts, with spacing at approximately 1' centers.
- B. To install horizontally
  1. Snap a chalk line along length of the wall to establish a straight edge before installing first row of AG BOARD. The chalk line should be positioned so that 3" extends below the top of the foundation.
  2. Attach the panel by starting with the first row at the lower corner with the first 2' x 4' panel wrapped around the corner. The top edge should be aligned with the chalk line creating a 3" overlap of the foundation.
  3. Unfold the bundle to the right along the wall to adjacent corner then install the upper row once the first row has been installed.
  4. Use 1/2" staples or self-tapping screws (for metal framing) to attach to the girts, with spacing on 1' centers.
  5. Continue to work along the wall, attaching the fanfold panels while unfolding the bundle or pre-cut sheet, while taping the seams.

*Note: Taping may not always be necessary in buildings where condensation is not a concern. Use caution when walking across the roof where AG BOARD has been installed; walking on supported areas only! (use chalk line or fastener pattern as a guide). The AG BOARD surface can be slippery so care should be used when standing or walking across the surface. Appropriate safety precautions for walking on roof should be adhered to in order to prevent falls.*



[www.goadams.com](http://www.goadams.com)

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