



Agriboard panels have unmatched strength in the **Structural Insulated Panel (SIP) industry**. Available in lengths up to 24 feet, they can be utilized as self-supporting wall, roof and floor panels. If columns and beams are required to provide additional supports for the panels, they are far fewer in number than in conventional structures. The panels are joined together with a system that transfers forces across the panel joints, creating incredibly sound building structures.

Agriboard engineers each panel for the span and loading conditions required by the project design team. The panels can support concentrated loads (such as roof-top mechanical equipment), and can be customized for unique profiles. In addition, the panels can accommodate large openings, such as windows and roof hatches.

Overall, **Agriboard** panels are a very effective structural system for numerous building types.

Q&A:

Q. How are the strength and span capabilities of the panels determined?

A. Agriboard panels have been tested in accordance with ASTM E72-98, "Standard Test Methods of Conducting Strength Tests of Panels for Building Construction". The test results were evaluated, and load tables were created, in accordance with International Code Council Evaluation Service, Inc. (ICC-ES) report AC-04, "Acceptance Criteria for Sandwich Panels".

Q. What are the span and loading capabilities of Agriboard panels?

A. The allowable spans and uniform load capabilities of Agriboard wall, roof and floor panels are published in load tables that can be found in Agriboard's website. Contact Agriboard for unique conditions not covered in the load tables.

Q. How are the panels joined together?

A. The panel edges are routed to create a continuous 1 $\frac{3}{4}$ " wide groove. A separate spline, or key, is fitted into the groove on one panel and secured with glue. When the panels are joined together, 5/16" diameter x 3 $\frac{1}{2}$ " long screws are utilized to mechanically fasten each panel to the joining key.

Q. How are the panels fastened to the foundation?

A. Agriboard provides a separate sill plate and sill seal beneath each wall panel. The key is mechanically fastened through the sill and seal to the concrete or masonry foundation with chemical or expansion anchors. The wall panel is then attached to the key with glue and screws. Holdowns can be installed at each end of shear walls. It should be noted that the specification of attachments of Agriboard panels to the foundation is the responsibility of the project's Engineer Of Record.

Q. Can Agriboard panels be attached to structural steel beams?

A. Agriboard panels can be bolted through pre-drilled holes in steel beam flanges. It should be noted that the specification of attachments of Agriboard panels to steel beams is the responsibility of the project's Engineer Of Record.

Q. Can Agriboard panels be utilized for lateral stability of the building?

A. Agriboard panels can function as shear walls and horizontal diaphragms. Refer to the Allowable Shear Tables for values and limitations.

