backing member projects outward beyond one side edge of the shape molded backing member **112**. It is contemplated that the sideward projection will be between 1 half inch and 3 inches.

FIGS. **15** and **16** are side views taken from various sides of the insulated siding member **110**. The view in FIG. **15** is a cross sectional cut through a central portion of the insulated siding member **110**. As can be seen in that figure, the indent **150** will have a thickness that approximated the thickness of the inward curve, with the thickness of the backing member varying to accommodate and approximate the contour of the various slats in the insulated siding member.

The insulated siding panels **110** are configured to mate in side-to-side abutting relationship as depicted in the FIGS. **17** through **21**. An insulated siding panel is configures so that the projection portion of one insulated siding panel **110** is received into that detent **128** formed in a mating insulated siding panel to form a continuous siding surface as depicted in FIG. **17**. It can be appreciated that the seam **154** can be one that is snugly positioned relative to one another so that the resulting siding assembly is resistant to cupping, separation and wind permeation.

FIG. **19** is presented with the siding layer of one insulated siding panel removed to demonstrate how the projecting edge of the abutting insulated siding member is received in the mating detent. As depicted in FIG. **20**, the projecting siding edge **126** is received and positioned neatly relative to the associated detent **128**. The upper edge configuration **129** is depicted in FIG. **21**.

Rear panel configurations of abutting insulated siding panel members are depicted in FIGS. **22** and **23**. Where desired or required, the rear panel configurations and be positioned such that the rear configurations correspond or cooperate as desired or required. It is contemplated that the lower edge of the respective siding layers can be configured to receive one another in overlapping relationship as depicted in FIG. **23**.

Insulated siding panels can be installed in abutting top-to bottom relationship as depicted in FIGS. **24** and **25**A, B where the lip formed proximate to the top of one siding layer engages the lip configured in the lower edge of an associated siding panel. The upper most edge of one insulated siding panel projects upward into the detent **150** formed in the abutting insulated siding panel member.

In various alternate embodiments it is contemplated that the shape molded backing member may be prepared in lengths greater than four feet, with lengths as great as 20 feet being contemplated. The shape molded backing member **112** can be attached to the siding layer **114** at any time prior to installation on the wall. It is contemplated that, where desired or required, the siding layer can be attached to the backing member at the factory or in the field.

While the disclosure has been described in connection with what is presently considered to be the most practical and preferred embodiments, it is understood that the disclosure is not limited to the disclosed embodiments, but is intended to cover various modifications and equivalent arrangements included within the spirit and scope of the claims. The claims are to be accorded the broadest possible interpretation so as to encompass all such modifications and equivalent structures and instructions as permitted under the law.

What is claimed is:

1. A panel for mounting on a wall comprising:

a shape-molded backing member composed of closed cell expanded foam having a rear face and an opposed front face having at least one shape-molded contour defined therein, the shape-molded backing member having an outer surface composed of a tough smooth skin and having a top edge, a bottom edge, a first side edge, and a second side edge; and

a siding member in overlying relationship with the front face of the shape-molded backing member, wherein the siding member has a projection extending beyond the first side edge and the siding member does not extend beyond the second side edge;

wherein the front face comprises a vertical detent along the second side edge of the front face, the siding member overlies the detent to form a pocket, the pocket being toleranced to securely receive the projection of the siding member of an adjacent panel;

wherein the backing member has a first planar side face on the first side edge and an opposing second planar side face on the second side edge, the first and second side faces being contiguously positioned between the front and rear faces.

2. The panel member of claim **1**, wherein the shape-molded backing member has a thickness between ¼ inch and 4 inches.

3. The panel member of claim **1**, wherein the at least one shape-molded contour comprises at least one shoulder, a planar region extending from a depressed edge of the at least one shoulder, and an outwardly extending region extending from the planar region opposite the shoulder, the shape-molded contour having the tough, smooth skin.

4. The panel member of claim **1**, wherein the siding member has a thickness between 0.020 and 0.039 inches inclusive.

5. The panel member of claim **1**, further comprising an adhesive layer interposed between at least a portion of the front face of the backing member and the siding layer, wherein the adhesive is continuously flexible, non-latex adhesive.

6. The panel member of claim **1**, wherein the shape-molded backing member comprises a plurality of regions within the backing member, each region having a different density of closed cell expanded foam, the region configured to provide structural integrity and support to a resulting siding panel through different densities.

7. The panel member of claim **1**, wherein the first side face or the second side face has the tough smooth skin.

8. The panel member of claim **7**, wherein the first side face and the second side face are configured to abut a side face of an adjacent shape-molded backing member between the projection and the wall.

9. The panel member of claim **1**, wherein the shape-molded backing member further includes at least one upper face and one lower face contiguously positioned between the front and rear faces, one or both of the upper face and lower face having a tough smooth surface.

10. The panel member of claim **1**, wherein the front face of the shape-molded backing member proximate the top edge includes at least one outwardly projecting lip member comprised of shape-molded foam and extending away from the wall beyond an upper edge of the siding member.

11. The panel member of claim **10**, wherein the rear face comprises a lateral relief spanning the width of the rear surface along the bottom edge of the rear face of the backing member, the lateral relief configured to be in overlaying relationship with an outwardly projecting lip member of an adjacent shape-molded backing member.

12. The panel member of claim **1**, wherein the rear face of the shape-molded backing member includes at least one lateral relief defined proximate the bottom edge along the width, the lateral relief configured to receive a projecting lip of an adjacent siding member.