

## **EBTECH POLYURETHANE (EB-PUF) COMPOSITE PANEL**

Ebtech Polyurethane Foam (EB-PUF) composite panel cores are comprised of a rigid foam insulating material, which is bonded between sheets of structurally rated Oriented Strand Board (OSB). These panel cores offer superior strength, thermal performance, ease of installation as well as finish-ready exterior and interior surfaces. EB-PUF panel cores can be modified to customer specifications using Ebtech's proprietary sandwich technologies. The composite construction of EB-PUF panels improves installation time.

### **Benefits**

- Excellent structural properties
- Design flexibility
- Comprehensive range of thicknesses and lengths
- Variety of skin configurations
- Wide selection of R-values
- Built-in electrical chase
- Ideal for Green building projects
- Superior insulating value
- Faster Installation with Cam-Lock system
- Factory warranty

### **Structural Properties**

Ebtech EB-PUF panels are structural, so there is usually no need for a framework of wood or steel studs. EB-PUF panels create a continuous whole-wall system with virtually no thermal bridging, breaks, or air infiltration as are present with wood or steel enclosure systems.

### **R-Values**

R-values are as high as 6.76 per inch of panel core thickness for optimal energy efficiency. EB-PUF panels are an ideal component for most low-rise commercial LEED and Green building projects. Panels are engineered to be thermally stable, maintaining their R-value over time, and can reduce heating and cooling energy consumption significantly.

### **Cam-Lock System**

The high impact plastic Cam-Lock joining system saves substantially on installation time as compared conventional stud wall construction. Cam-Locks aid in achieving a uniform positive seal between panels, helping to eliminate possible moisture and air infiltration. Cam-Locks are located at two foot intervals along the vertical edge of the panel, and in conjunction with the tongue and groove profile of the foam core create an exceptionally strong, superior building envelope.

### **Fire Resistance**

The foam used in EB-PUF panels holds a Class 1 Fire Resistance rating - the highest rating available for combustible materials. Because the core of the Ebtech panel is solid, there is no air cavity in a wall or roof to permit a "chimney effect." A chimney effect promotes and hastens fire spread, and is inherent with open cavity enclosure systems such as stick framing.