

## Recessed Lighting

When SIPs are used in a roof/ceiling applications, there are limitations on the types of lighting that can be used with the panels. Recessed or can lights that are intended to be recessed into a finished ceiling are not recommended for application within PorterSIPs.

There are three primary issues. Because the facings of the panels are a key component in the structural integrity of the panel, excessive cutting of the face will lead to a reduction in structural capacity. Additionally, the heat created by the lighting and the reduction of the insulation in the panel can lead to hot spots on the roof and possible condensation issues. Finally, the expanded polystyrene foam core has a relatively low melting temperature - about 190° F. If the incorrect light fixture is installed or if the EPS core is not properly protected, the structure of the panel can be significantly damaged.

These issues can be solved by taking the recessed lighting into consideration at the design stage. An engineer can review the cuts to ensure the structural integrity of the SIP panel. Also, the plans can include dimensional lumber blocking or ½" gypsum board to be installed over the exposed EPS prior to the installation of the fixture.

PorterSIPS recommends that track lighting or other types of surface mounted lighting be used instead of recessed fixtures when SIPs are used in a roof/ceiling application. If recessed lighting is to be used, please first consult with PorterCorp.

NOT Recommended Method of  
Installation for Recessed Lighting

