

1.04 SYSTEM DESIGN GUIDELINES

A. INTENSIVE GREENING (DEEP) SYSTEM:

1. A proper substrate shall be provided beneath the waterproofing membrane. This can be accomplished with the use of adhesives or fasteners to secure the roof insulation. The protection board shall be set in adhesive or asphalt as the underlayment for the membrane.
2. The membrane may be a 90-mil Platinum EPDM or an 80-mil UltraPly TPO membrane installed in an adhered fashion.
3. A layer of minimum 2" (5.cm) thick extruded polystyrene insulation with drainage channels is used above the membrane to facilitate drainage and protect the membrane against puncture.
4. A root barrier consisting of 40-mil non-reinforced geomembrane is installed above the insulation and covered with protection fabric and a layer of drainage gravel a minimum of 2" (5.cm) in thickness.

Note: A layer of drainage board may be used as a substitute to the drainage gravel and protection fabric used beneath the growth media and above the root barrier.

5. A second layer of protection fabric will be required above the gravel prior to the installation of the growth media.

INTENSIVE (DEEP) GREEN ROOF

