

## SPECIFICATION

### Green Living Technologies (GLT) - Extensive Green Roof System

This specification describes the GLT extensive green roofing system designed to provide a vegetative cover on sloped and flat surfaces (<20 degrees). GLT can be delivered as a pre-grown system. This specification is intended to be included in **Section 01107 – Vegetative Roof Coverings**.

#### 1. General

##### 1.1 Related Sections

- .1 Section [02700] – [Paving Stones and Ballast]
- .2 Section [02810] – [Irrigation Systems]
- .3 Section [07210] – [Roof Insulation]
- .4 Section [07550] – [Waterproofing Membrane]
- .5 Section [07620] – [Sheet Metal Flashing]

##### 1.2 Installation Contractor

- .1 The GLT system must be installed by Green Living Technologies (GLT) or certified GLT installer or local labor in addition to GLT supervision.

##### 1.3 Proof of Structural Load Bearing Capacity

- .1 An engineer's report confirming the load bearing capacity of the existing structure *must be provided by the client*. Green Living Technologies will not be held responsible if this report is not furnished. It is assumed that the client has accepted all responsibilities related to the structural integrity of the roof in relation to installing a green roof on top.

##### 1.4 Plans & Shop Drawings

- .1 The client must provide scale drawings to Green Living Technologies (GLT) for quotation and design purposes.
- .2 If acceptable scale drawings are not available, GLT or approved alternate will be required to produce said drawings at the client's expense.
- .3 GLT will provide plan and shop drawings to client showing all material terminations, transitions and penetrations.

##### 1.5 Waterproofing Membrane

- .1 There must be an approved high quality waterproofing membrane in place under the GLT roof system prior to installation of the green roof.
- .2 The waterproofing manufacturer must provide written approval of the GLT system for use on their membrane.
- .3 A flood test, or other approved leak detection method, is to be performed prior to installation of the GLT system to ensure the membrane is performing as per manufacturer's specifications. GLT will not accept or is responsible for existing leaks or other issues related to the membrane.
- .4 The waterproofing membrane will be covered by a separate warranty issued by the waterproofing provider and will not be covered under the GLT product warranty.

- .5 Green Living Technologies will not be held responsible if this report is not furnished. It is assumed that the client has accepted all responsibilities related to the waterproofing capabilities of the membrane.

**Accessories**

- .6 All other components or accessories must be approved or provided by GLT to ensure viability and performance of the system as per the specifications.

**1.6 Lead Time**

- .1 It can take as long as 6 months of growing season to produce a pre-grown system depending on plant species and propagation method. The decision to purchase a pre-grown system must be made 6 months prior to the installation date to allow sufficient time for this production by a local approved grower.
- .2 Production of GLT components can take as long as 2 months to manufacture. A lead time of 2 months should be anticipated when ordering any components.

**1.7 Contract Documents**

- .1 In the case where GLT is hired to install the system a signed contract specifying the scope of work, terms and conditions, payment scheduling, warranties, and any other relevant information is required before plant propagation is started.

**1.8 Warranty on Workmanship**

- .1 A five (5) year standard warranty on workmanship is to be provided by the installer.

**1.9 Warranty on Components**

- .1 GLT warrants all non-living components of the GLT system will perform as specified for 15 years provided the GLT maintenance program has been followed and any work performed on the system has been done by GLT or a GLT approved agent.
- .2 The 15 year warranty for the root barrier, vegetation carrier/drainage board, filter fabric, water retention, root stabilizer, growing medium and edging details of the GLT system states that these components will not degrade due to physical, chemical or biological processes that naturally occur in a green roofing system. The labor and material cost of any warranty work is covered in this warranty. An extended warranty is available for this portion of the system but must be used in conjunction with the GLT maintenance program.

**1.10 Warranty on Vegetation**

- .1 A one (1) year warranty and maintenance contract for the approved vegetation shall be provided with the initial quotation for an extra cost. (\*All vegetation warranties are voided unless an automatic low volume irrigation system is installed) This will cover all aspects of the vegetation and system performance. An extended warranty (including vegetation) is available as part of the maintenance program and can be extended for as long as a GLT maintenance program is purchased.

**1.11 Extended Warranty and Maintenance Program**

- .1 An extended warranty and maintenance program can be purchased for the GLT system.
- .2 The warranty and maintenance program is available in the form of an annually renewable contract between GLT or approved agent and the client. The warranty will

