



GREEN WALL AT CANADA LINE YVR 4

The following are some basic facts about the ‘Living Wall’ in front of the International Terminal Building. The green wall at the Vancouver International Airport, Canada Line Station 4, is one of the largest ‘living walls’ in North America.

Design Concept: The vegetated wall connects the rapid transit station to the ground and is a continuation of Chester Johnson Park. The wall is a giant living tapestry featuring flowing waves of foliage, colours, and textures.

Modular Living Wall systems are composed of pre-vegetated panels that are vertically fixed on a frame attached to the structural wall. The G-Sky panels are made of stainless steel and support a lush density of groundcovers, ferns and evergreen perennials. Besides aesthetics, the wall has multiple environmental benefits including evaporative cooling, air purification, acoustical control, and biophilia, i.e. allowing people to be in contact with nature.

The green wall measures 17 metres high and 11.6 metres wide, and houses 27,391 individual plants on 2,107 panels. An automatic drip irrigation flow meter, freeze sensor and fertilization system keeps the plants healthy and the wall green throughout the year. The variety of foliage, change in colour, and blossoms from the evergreen perennials create a four seasons effect. The tapestry wall is mostly in the shade, yet receives the early morning sun, April to September.

The YVRAirport Authority’s Engineering team with Sharp & Diamond Landscape Architecture used the best available technology and shade tolerant plants for the green wall application. Plants were carefully selected for long-term performance based on years of experience with similar installations in Japan and on the West Coast of Canada.

10,829 Green Euonymus: *Euonymus japonicus Microphyllus*

5,161 Silver Euonymus: *Euonymus japonicus Microphyllus Albovariegatus*

5,148 Mondo Grass: *Ophiopogon japonicus Nana* – small white blossoms in summer

6,253 Licorice Fern, *Polypodium glycyrrhiza*

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