

Introduction to Vertical Gardening

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Types of vertical gardens (a.k.a green wall, living wall)

- Climbers and vines, either directly on the wall/fence or using support such as trellis or cables.
- Modular living wall: Covering a vertical surface using modules
 - o Panels
 - o Pockets
 - o Containers
- Hydroponics: No-soil systems

Vertical gardening systems and products for Vancouver:

	Description	Outdoor /Indoor	Company	Available through
Modular systems				
Pocket Planter	Felt pockets	Both	WallyGrow	WallyGrow.com
Eco Planter	Plastic	Both	WallyGrow	WallyGrow.com
Invivo pocket	Tarp pockets	Both	Invivo Design	Invivo-design.com
Hanging planters	Metal custom made	Both	Pot Inc.	Pot Inc.
DIY: Pallets	Wood pallets and landscape fabric	Out	NA	Garden centres, hardware stores
DIY: Planters	Many hanging planters	Out	NA	Garden centres
DIY: gutter system	Gutters as slim planter boxes	Both	NA	Hardware stores
Hydroponic systems				
ZipGrow towers	Hydroponic towers	Both	ZipGrow Canada	
DIY: window farm	Small containers with recycled fertigation	In	NA	Irrigation stores
Green Facades				
Cables	Vertically stretched metal cables	Out	Jakob	Hardware stores, Architek
Trellis – metal		Out	GreenScreen	Hardware stores, Architek
Trellis - wood		Out		Garden centres

Plant recommendations for vertical gardens – ornamental and edible

Mixing annuals with evergreens creates continuous greenery over the seasons.

Outdoors Sun	Outdoors Shade
<u>Sedums(Stonecrops). My favourites:</u> Broad-leaved Stonecrop (<i>Sedum spathulifolium</i>) Spreading Stonecrop (<i>Sedum divergens</i>) Oregon Stonecrop (<i>Sedum oreganum</i>) Alumroot (<i>Huechera micrantha</i>) <u>Spurges (Euphorbias)</u> Mediterranean Spurge (<i>Euphorbia characias</i>) Cushion Spurge (<i>Euphorbia polychrome</i>) Dwarf periwinkle (<i>Vinca minor</i>) Salal* (<i>Gaultheria shallon</i>) [edible] Bunchberry* (<i>Cornus Canadensis</i>) Dwarf rhododendrons (e.g. <i>Rhododendron pemakoense</i>) Wintergreen (<i>Gaultheria procumbens</i>) Kinnikinnick (<i>Arctostaphylos uva-ursi</i>) Wild strawberry (<i>Fragaria virginiana</i>) Coastal strawberry (<i>Fragaria chiloensis</i>) Nasturtium (<i>Tropaeolum majus</i>) Sweet alyssum (<i>Lobularia maritima</i>) Hostas (e.g. <i>Hosta 'Patriot'</i> (v)) Foxglove (<i>Digitalis pupurea</i>) <u>Herbs. Partial list:</u> Rosemary, Chives, Sage, Lavender, Oregano Strawberries and annual vegetables	<u>Ferns:</u> Hart's-tongue (<i>Asplenium scolopendrium</i>) Toothed wood fern* (<i>Dryopteris carthusiana</i>) Eastern wood fern* (<i>Dryopteris marginalis</i>) Licorice fern* (<i>Polypodium glycyrrhiza</i>) Spiny-wood fern (<i>Dryopteris expansa</i>) Sword fern (<i>Polystichum munitum</i>) Alumroot – Huecheras (see sun section) Euphorbias (see sun section) Mondo grass (<i>Ophiopogon japonicus</i>) Blue Lilyturf (<i>Liriope muscarifolia</i>) Huckleberry* (<i>Vaccinium ovatum</i>) Japanese spindle (<i>Euonymus japonicus</i>) Woodland strawberry (<i>Fragaria vesca</i>) Oregon grape* (<i>Mahonia aquifolium</i>) Variegated Japanese Sedge (<i>Carex oshimensis 'Evergold'</i>)
Climbers	Indoors
Virginia creeper (<i>Parthenocissus quinquefolia</i>) Chocolate vine (<i>Akebia quinata</i>) Wisteria (e.g. <i>Wisteria frutescens</i>) Hardy Kiwi (<i>Actinidia arguta</i>) Grape vine Tomatoes (indeterminate varieties) Cucurbits (cucumber, zucchini, squash)	Spider plant (<i>Chlorophytum comosum</i>) Boston fern (<i>Nephrolepis exaltata</i>) Devil's ivy/Golden pothos (<i>Epipremnum aureum</i>) Lilyturf (<i>Liriope spicata</i>) Schefflera (<i>Schefflera arboricola</i>) Arrowhead plant (<i>Syngonium podophyllum</i>) Heartleaf Philodendron (<i>Philodendron hederaceum</i>) Wandering Jew (<i>Tradescantia zebrina</i>, <i>Tradescantia pallida</i>)

*native to the Pacific Northwest

Web resources

- WallyGrow: <https://wallygrow.com/>
- Architek: <http://architek.com/>
- GreenScreen: <http://greenscreen.com/>
- Jakob: <http://www.jakob.com/display/JAK/Green+Solutions>
- Pot Inc.: <https://potinc.ca/>
- Air filtering plants: https://en.wikipedia.org/wiki/NASA_Clean_Air_Study
- Feel free to contact me: <http://www.invivo-design.com/>