



ZinCo Press Release

Gleneagles Drive Residence in West Vancouver, Canada **Exclusive verdant area with a sea view**

The private dwelling house, Gleneagles Drive Residence with its spectacular views of the Pacific Ocean is in one of the most sought after neighbourhoods of West Vancouver. The flat-roof building on a hillside location, comprising a number of individual components, has an extensive green roof area totalling approx. 180 m² and presents itself as being just as cultivated and elegant as the sophisticated neighbourhood in which it is situated. ZinCo Canada Inc. supplied the suitable system build-up "Sedum Carpet" – simple and flowering.

The district of West Vancouver is to the north-west of Vancouver in a superb scenic location, stretching from the southern slopes of the North Shore Mountains to the shores of the Pacific Ocean. Due to its incomparable location between sea and mountains, Vancouver is considered to be one of the most beautiful cities in the world, offering a unique combination of civic amenities, cultural attractions and nature. The population of Greater Vancouver is over 2.4 million, about half of the entire population of British Columbia, making Vancouver the largest metropolitan area in Western Canada.



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Joint collaboration

In Western Canada, ZinCo Canada Inc. collaborates with the experienced distributors, Architek SBP Inc. Architek had already begun to collaborate with the owners Les and Leslie Allen and with the architect commissioned by the Allens, D.B. Simpson, during the planning phase. The owners were also very active during the construction phase of the green roof installation, which Architek carried out together with a qualified landscape gardener.

Varying levels

The three individual roof areas to be greened, approx. 180 m² in total, are all at different altitudes, and in addition, the hillside location of the property provided for somewhat difficult access conditions.

The roof areas themselves have pitches of between 1° and 7°. The foundation of the green roof consists of a reinforced concrete roof with a rigid foam insulation layer onto which a bituminous root-resistant waterproofing membrane was installed. The green roof build-up itself was then installed, starting with the Protection Mat SSM 45. The next layer was the drainage and water storage element Floradrain® FD 25-E, which is the core piece of the system build-up and reliably regulates the water balance: the 25 mm high elements store water in their water storage cells and safely draw off the surplus water through the underlying channel system. This layer was then covered by the Filter Sheet SF and the green roof build-up was ready for the substrate. The combination of mineral and organic



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elements that make up the system substrate used here, “Sedum Carpet” (referred to as “Zincoblend-E” in Canada), is perfectly adapted to suit the plants that were used. The substrate was delivered in so-called super bags and was spread across the roof areas to a depth of approx. 10 cm. The plant layer consists of pre-cultivated sedum mats that contain a variety of low-growing sedum species such as White stonecrop (*Sedum album*), Little evergreen stonecrop (*Sedum hybridum* “evergreen”) or Japanese spurge (*Pachysandra terminalis*). Yellow is the predominant flower colour, which gives the roof a simple and clear appearance. The harmonious, functional layers of this proven ZinCo system build-up will ensure that the plant growth will be established permanently.

Neat and cultivated appearance

An extensive green roof with self-maintaining sedum species is by nature very low-maintenance. A landscape gardener has been tasked with the care and maintenance of the new green roofs at Gleneagles Drive Residence where he will remove any weeds, if necessary, and will check the roof drains once a year. Individual anchor devices are installed on the roofs and the gardener can attach himself to them and use them as a fall arrest system.



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Due to the steep coastal location, the uppermost green roof area on the North side merges directly into the natural landscape that is at the same level. This part of the building is used as a garage and is accessible from the side from a driveway that slopes down from the road. Part of this 170 m² driveway area with additional car spaces is also the roof of a building. Architek SBP Inc. incorporated strips of EcoGreen into the driveway in order to reduce drainage.

A ZinCo EcoGreen is a grid element made of recycled PE-LD that is filled with substrate and with pre-cultivated lawn, ideal for use on access roads and parking areas. This allows for a very neat, overall appearance.

Particularly valuable

When you consider the challenging geographical location of the property and the steep coastal landscape with its rich tree population and rocky underground, the owners and planners have achieved something very special here. The individual areas comprising the garden, the living space and the parking space nestle together to create a superb architectural structure. Man takes ownership of the steep coastal location but retains that balance between nature and architecture.



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This is where a green roof, in particular, makes a specific contribution and exemplifies how a simple extensive green roof can become a fancy eye-catcher.

Authors

Heidrun Eckert, ZinCo GmbH
Jelle Vonk, ZinCo Canada Inc.
Ron Schwenger, Architek SBP Inc.

Characters with spaces: 5270

For further information, please contact:

ZinCo GmbH
Lise-Meitner-Str. 2
72622 Nuertingen
Germany
Phone: +49 7022 6003-0
e-mail: info@zinco-greenroof.com
www.zinco-greenroof.com

Life on Roofs



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Site board

Construction project:	Gleneagles Drive Residence, Canada
Construction year:	2015
Green roof area:	approx. 180 m ²
Green roof build-up:	ZinCo system build-up "Sedum Carpet" with Floradrain [®] FD 25-E
System supplier:	ZinCo Canada Inc., P.O. Box 29, Carlisle, Ontario, L0R 1H0, Canada
Architect:	D.B. Simpson Architect, 10-917 West 7 th Avenue, Vancouver, British Columbia, V5Z 1C4, Canada
Green roof contractor:	Architek SBP Inc., 3715 Pudget Drive, Vancouver, British Columbia, V6L 2T8, Canada



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Photos

Publication permitted only if the relevant source is included:



File name: Architek_Gleneagles_2003.jpg
Source: Brett Ryan Studios, Vancouver

Caption:

Gleneagles Drive Residence fits into the steep coastal landscape and with that retains a balance between nature and architecture.



File name: Architek_Gleneagles_3023.jpg
Source: Brett Ryan Studios, Vancouver

Caption:

The multi-component building presents wonderful extensive green roofs at different altitudes.



File name: Architek_Gleneagles_1001.jpg
Source: Brett Ryan Studios, Vancouver

Caption:

180 m² of sedum green roof are framed by the spectacular backdrop of the Pacific Ocean.



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File name: Architek_Gleneagles_1010.jpg
Source: Brett Ryan Studios, Vancouver

Caption:

The right side of this green roof merges directly with the natural landscape on the same level.



File name: Architek_Gleneagles_1008.jpg
Source: Brett Ryan Studios, Vancouver

Caption:

This impressive photo shows what the inclined observer sees from the road.



File name: Architek_Gleneagles_2010.jpg
Source: Brett Ryan Studios, Vancouver

Caption:

The geographical conditions are very clear from a birds eye view. The driveway into the property is adjacent to and partially on top of a roof.



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File name: Architek_Gleneagles_2004.jpg
Source: Brett Ryan Studios, Vancouver

Caption:

The green roof elements of the building are embedded in the lush nature.



File name: Architek_Gleneagles_1021.jpg
Source: Brett Ryan Studios, Vancouver

Caption:

White stonecrop (*Sedum album*) is found among the Little evergreen stonecrop (*Sedum hybridum* "Immergrünchen") with its yellow flower and Japanese spurge (*Pachysandra terminalis*).



File name: Architek_Gleneagles_1025.jpg
Source: Brett Ryan Studios, Vancouver

Caption:

This vibrant appearance shows that the plants are well cared for.



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File name: Architek_Gleneagles_3005.jpg
Source: Brett Ryan Studios, Vancouver

Caption:

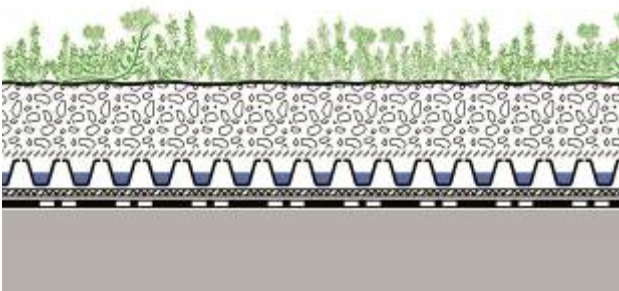
The opulent flowers on the sedum green roof are a promise of natural rich pickings for the insects.



File name: Architek_Gleneagles_1022.jpg
Source: Brett Ryan Studios, Vancouver

Caption:

Sedum telephium is a typical example of frugal thick-leaved plants.



File name: Systemaufbau Sedumteppich.jpg
Source: ZinCo

Caption:

System build-up "Sedum Carpet"
with Floradrain® FD 25-E

Plant layer "Sedum Carpet"
System substrate "Sedum Carpet"
Filter Sheet SF
Floradrain® FD 25-E
Protection Mat SSM 45
Roof build-up with root-resistant waterproofing
membrane



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File name: IMG_3876.jpg
Source: Architek

Caption:

With a root-resistant bituminous waterproofing membrane, the roofs are very well prepared for the installation of the ZinCo green roof system.



File name: FD-Verlegung mit SF.jpg
Source: ZinCo

Caption:

The core element of the "Sedum Carpet" system build-up are the drainage and water storage elements Floradrain® FD 25-E, that are subsequently covered with the Filter Sheet SF.