

# Place Alta Vista Pergola

Terrebonne, Québec

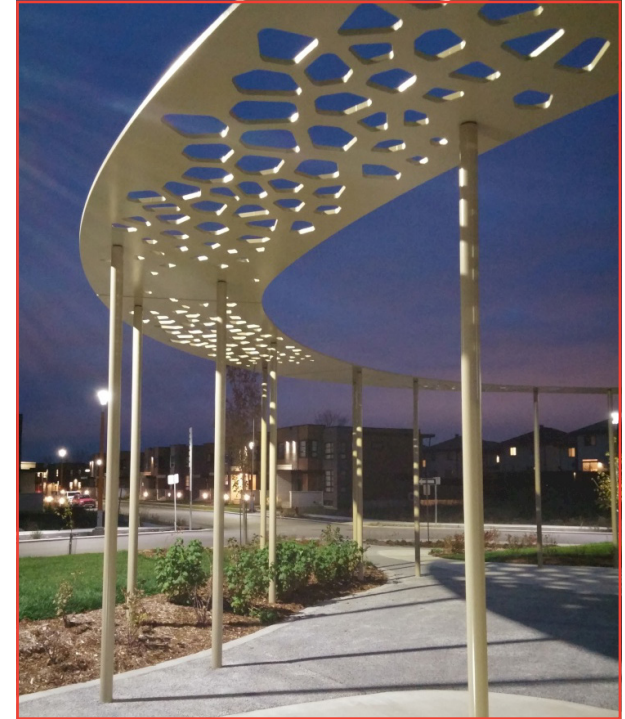


**W**hen the City leaders of Terrebonne (whose name literally means “good earth”) approved the development of Alta Vista, a cutting edge “eco-responsible” neighborhood, they felt a symbolic representation of their vision for this new living area was needed.

Since the ecological advances in this new development were a melding of basic biological understanding and high technology they decided upon a ring pergola with a Voronoi distribution design. A Voronoi diagram is a distribution of space between randomly positioned points where the perimeters are equidistance from the points. While Voronoi diagrams are used for various purposes such as urban planning and medical research in this case they represent organic cellular distribution as seen in diverse organisms such as the wing of an insect or the leaf of a tree.

Part of eco-responsibility is sustainability and hot-dip galvanizing fit in beautifully with naturally occurring zinc assuring a long service life especially with a duplex paint system bringing even greater durability. The lithe looking structure has no welding, only precision plasma cutting was used and special care was taken during galvanizing to ensure the precision fit components would assemble on site effortlessly. The minimalist ring itself has 17% open area which was the precise amount required to reduce weight to the safe loading level of those thin columns while still leaving sufficient material to prevent any deflection of the ring from snow or ice load.

This new neighborhood represents the leading edge of eco-friendly suburban development and the Place Alta Vista pergola symbolizes this better way to develop our cities with hot-dip galvanizing taking its rightful place in this hallmark of sustainable development. ■



## Galvanizer

Corbec inc. - Montreal

## Architect

Jean-François Veilleux, Agence Relief Design

## Fabricator

Gerry Buswell, Deko Soudure

## Owner

Ville de Terrebonne

## Specifier

Latéral Conseil

# Duplex Systems