

case study:
Italian for Common Sense

Pisa2[®]



project details

wall system

Pisa2 with
Raugrid 4/2-15
Geogrid
Reinforcement

owner

IKEA

design

Risi Stone Systems
Thornhill, ON

manufacturer

Unilock Ltd
Georgetown, ON

installer

The Downsview Group
Woodbridge, ON

>> Supports Commercial Parking



RisiStone[®]
retaining wall systems

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Those who have been to IKEA on a Saturday afternoon will attest to the need for parking space – and lots of it. So when the Swedish furniture retailer planned for its newest and largest flagship store, located just west of Toronto, the issue of ample parking was paramount. In order to fully maximize the site, an underground parking structure and aboveground parking were required. As a result, a wall was called for to provide the necessary grades to achieve this space-saving plan.

Working together with The Downview Group, an experienced local contracting firm, Risi Stone Systems provided a full design report with exact quantities and elevation views leaving no guessing on material costs. The Contractor's experience with the Pisa2 system allowed a further level of accuracy in the bidding process, ultimately resulting in a competitive overall project cost. The Pisa2 geogrid reinforced SRW system was chosen over a number of other alternatives for its competitive price, versatility, design flexibility and aesthetics.

As the underground garage is located directly behind the wall, a number of corrugated pipes extending through the face of the wall were required to ventilate the air. The wall was designed with a traffic load as an additional parking area exists immediately behind the top of the wall. The entire Pisa2 geogrid reinforced structure was designed and laid out without the ventilation pipes, then, during construction the exact positions of the pipes were located. Since the Pisa2 units are solid, this allowed the contractor to cut the blocks on site to fit perfectly around the pipes without reducing the strength of the blocks.

The result is a wall that provides the underground parking facility with the room it needs by elevating the onsite grades as well as maintaining an aesthetically pleasing appearance.

