

case study:
Makes the Grade

Pisa2[®]



project details

wall system	owner	design	manufacturer	installer
Pisa2 with Mirafi 2T Geogrid Reinforcement	Chrysler Canada Brampton, ON	Regent Landscape Newmarket, ON	Unilock Ltd Georgetown, ON	General Contractor: Dufferin Construction Oakville, ON Wall Construction: Regent Landscape Newmarket, ON

>> Supports Road



RisiStone[®]
 retaining wall systems

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During the summer of 1995, Chrysler Canada performed site work to upgrade their facilities in Brampton, Ontario. The purpose was to create a new access road where a slope and earth berm originally existed. Below the wall there was a storm water management area that had to be left undisturbed.

The Pisa2 retaining wall was selected for a number of important reasons: cost, durability, ease of installation, and long-term performance. Once completed, the wall would be seen by all local traffic, so aesthetic appeal was also an important consideration. A number of competitive retaining wall systems were evaluated, and the Pisa2 retaining wall system was deemed to be the best way to meet the needs of the owners. The geogrid reinforcement, necessary for the stability of the wall, was designed by the contractor using the RisiWall 3.0 design software. When the design was completed, it was reviewed by a professional engineer, and certified that it met current building code standards.

The entire retaining wall was constructed from September 12th to 20th by a three-person crew using a front-end loader and a self-propelled roller compactor. In total, construction required 6,000 square face feet of retaining wall, 600 ft of granular base, 3,800 yd² of geogrid, and 2,000 yd³ of soil to be placed and compacted. The wall also included an internal drainage zone directly behind the fascia units to relieve any hydrostatic pressure and to collect and channel all water entering the reinforced soil away from the wall.

All parties involved should be very happy with the results. This retaining wall is a testament to the contractor's skill and the Pisa2 retaining wall system.



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