Demonstration Project: TDA as Lightweight Backfill for Residential Foundations

Site of new home being built in summer 2009 by member of the TDA Program’s Technical Advisory Council. Located in the Town of Ontario, N.Y.
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Installation of Superior Walls pre-insulated foundation system.
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A Beneficial Use Determination was received from the NYS Department of Environmental Conservation. 20T of TDA from Seneca Meadows was then delivered to the site.
New York State Tire Derived Aggregate Program

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Installation of monitoring equipment and recording of initial readings by researchers from the University at Buffalo.
New York State Tire Derived Aggregate Program

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Installation of geo-textile material to wrap TDA.
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Placement and compaction of TDA along two walls of the foundation. Standard construction machinery was used.
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View from the southwest corner of the property after completion of rough grading. Electrical conduit was used along foundation to protect wiring of monitoring equipment.
New York State Tire Derived Aggregate Program

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Data logging equipment installed in basement (left) and view of nearly completed home (right). Data is being recorded from sensors multiple times per day and stored electronically in data loggers. Stored data is then downloaded regularly for analysis and reporting purposes.