

Compost Facility

Welland, Ontario



Newman Bros. Limited constructed a new composting and demolition (C&D) facility with source separated organics (SSO) composting capacity near Welland, Ontario. Universal Resource Recovery Inc. (URRI) an environmental recycling company, purchased the abandoned Stelco Pipe Plant site in May, 2006. The site has 350,000 square feet of building space on about 60 acres. The compost facility is a 100,000 square foot modern organic composting, construction waste and demolition reclaiming facility.

The reinforcement for the foundations and walls of the facility were welded into pre-assembled mats and transported to the facility and installed by Newman Bros. who completed the project in record time. The construction schedule had to be met, as the opening of the facility was critical. If the

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project had been specified a field installation, an enormous amount of onsite assembly overtime would have been required. With pre-assembled mats, the pour schedules for the concrete were met without any problems.

The mats were fabricated using standard assembly and welding procedures according to CSA standards and the Canadian Welding Bureau. In addition, the mats were pre-assembled to meet the Ministry of Transportation Ontario regulation on maximum trailer widths.

The mats and cages were assembled in Salit's Welland facility which is in close proximity to the jobsite. This made the use of pre-assemblies very attractive to the client. Salit Steel and its sister operation, StelCrete, joined forces to fabricate the mats and cages.

The compost facility includes receiving areas for SSO, food waste, yard wastes and wood. The various feed stocks are mixed in a substrate preparation area. The facility has dedicated screening and product storage areas.

For the plant to accept the estimated 68,750 tons of compostable material annually, including commercial food and kitchen waste and organic greens (grass, tree, post consumer and agricultural waste), the plans called for the construction of 24 channels.

After demolition of the existing 4-inch floor, the Newman Bros crew constructed the composting channels. Because of the restrictions of an existing structure and the need to pump both the walls and new floor with concrete, Newman Bros., approached Pumpcrete to use their 31-meter with telescopic boom. Complicating the floor placement was the aeration system which includes 4-inch PVC pipe near the surface of the channel floor. The standard pump kit was able to handle the fibermesh reinforced concrete with super plasticizer and 1-1/2-inch aggregate.

The project started in March 2008 and ended in December the same year.



Positioned assemblies to accommodate rebar mats



Section of poured-in-place compost channel

