



Roseville Library, Ramsey County

Project description

This renovated library used concrete throughout its structure in creative ways. The project showcases the canvas that concrete provides. This building is now LEED Gold certified; 75 percent of its original structure was reused.

Project dates

May 2009 - June 2010

Materials

Ready Mix - 1,100 CY

Aggregate - 990 tons of course aggregate; 770 tons of sand

Unique specifications

All of the concrete had to have a maximum cementitious content of 520 CY and a SCM replacement rate of 40%. Of that 40% replacement, only 30% could be flyash. We created ternary mixes that included cement, flyash and slag.

Also, we used viscosity modifying admixtures to give many of the lean concrete mixes more "body." These admixtures help with finishability and allow the contractor to pump and place very lean concrete mixes.

Team

Owner: Ramsey County

Architect: Meye, Scherer & Rockcastle, Ltd.

Contractor: McGough Companies

Engineer: Meyer Borgman & Johnson

Ready Mix supplier: AVR, Inc.

For more information, contact Josh Edwards, joshedwards@avrconcrete.com