

FrontRunner Commuter Rail

Application

387,750 cubic feet of EPS 22, 29 & 39 Geof foam was installed as embankment fill material for the FrontRunner commuter rail line in Salt Lake City, Utah.

Project Details

Winter 2010, engineers selected EPS Geof foam as lightweight embankment fill material for the FrontRunner commuter rail line because of their previous success using it on the TRAX West Valley lightrail line, also located in Salt Lake City. Frontrunner serves the northern portion of the Wasatch Front from Ogden Union Station on the north to Provo, Utah on the south.

EPS Geof foam was used to reduce the lateral and vertical pressure on a newly installed box culvert. The box culvert is located at the base of the embankment of the lightrail line. Fourteen layers of 3-foot thick Geof foam blocks were installed to achieve the desired pressure reduction on the box culvert. Over 1,500 pounds per square foot of vertical pressure was reduced by substituting Geof foam for conventional fill material.

EPS Geof foam has been used nationwide as an engineering solution for its lightweight, high compressive strength, predictable material behavior, and ability to save projects installation time.

Geof foam

FrontRunner Commuter Rail

- Draper, Utah
- Winter 2010
- EPS Geof foam Embankment Fill
- 387,750 Cubic Feet

Engineer

Rick Chestnut
Terracon

Contractor

Matthew Blackburn
SLC Commuter Rail
Constructors



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