TenCate develops and produces materials that function to increase performance, reduce costs and deliver measurable results by working with our customers to provide advanced solutions.

**THE CHALLENGE**

Due to continual growth in the Manchester, New Hampshire area, as well it’s proximity to the greater Boston area, the Manchester Boston Regional Airport incorporated an expansion phase that included facility upgrades. These facility upgrades also included a runway expansion.

**THE DESIGN**

Constrained by the existing airport entrance roadway, a segmental retaining wall (SRW) utilizing Keystone Compac and Miragrid® XT geogrids was designed to maximize the available runway length. The wall had to be both structurally sound and aesthetically pleasing.

**THE CONSTRUCTION**

This phase of the project required a 28’ high retaining wall. One wall section had two 14’ tiered retaining walls that then blended into a third wall. All three walls merged at the end of the span to create a structure with approximately 100,000 face square feet.

**THE PERFORMANCE**

The Keystone Compac walls utilizing Miragrid® XT geogrids provided a structural SRW that blended with existing walls. This combination provided an excellent alternative to conventional, poured-in-place concrete walls.
Completed wall 28”.

Tiers coming together at the end of the wall.

Completed wall.