

SQFT

KEYSTEEL

PANEL SYSTEM



River & Flood Walls



Bridge Abutments



Rail Transportation



Roadway Support



Bridge HWs & WWs

Product Information

Unit Specifications:

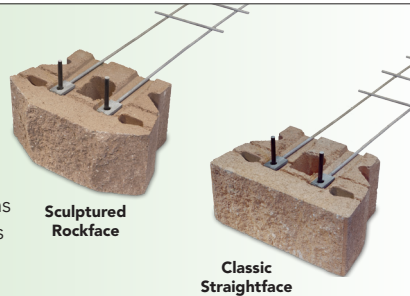
8"H x 18"W x 12"D
95 lbs

Pin Specifications:

$\frac{9}{16}$ " x 8" Steel Connection Pins
5/4" Fiberglass Alignment Pins

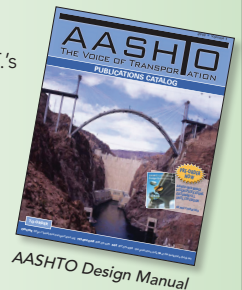
Wall Heights:

Range from 4 ft. to over 70 ft. high



Support Material

- HITEC reviewed and approved by state D.O.T.'s HITEC CERF Report #40478.
- KeySteel SQFT is designed and manufactured to current AASHTO LRFD specifications and criteria.
- CONTECH is a single source supplier including design support, panel units, steel strips and connection pins.
- CONTECH has representatives in your area to help assist in planning, design and installation.



Unit weight, dimensions, color and texture vary by state. • Please contact your CONTECH representative for specific product specifications and availability.

Performance Characteristics

KeySteel SQFT vs Large Panel Systems (MSE)

- Cost effectiveness of **Segmental Retaining Walls** with the strength and reliability of **Mechanically Stabilized Earth** walls.
- Replace the logistics of handling multi-piece precast panels, eliminating job site delays due to damaged or miscast panels, or change in project construction path.
- Follow top & bottom grade lines closer than large panels, reducing average wall heights; thereby reducing wall area, reinforcement length, foundation excavation & disposal, and reinforced fill quantity.
- Provides labor savings using smaller crews and the economies of unskilled workers.
- SQFT panels can be staged with skid steer sized equipment and hand placed vs cranes.
- Creates a more flexible facing system, handling most foundation settlements without employing slip joints.
- SQFT panels easily allow for curvilinear wall geometry.
- The SQFT flexible wall face is capable of tolerating backfill down drag forces and minor differential settlement without breakage, eliminating the need for bearing pads and wedging.
- SQFT panels can be field cut and hand placed to match protrusions through the facing, eliminating the need for special panel fabrication.

Inextensible KeySteel SQFT vs Extensible Reinforcement (SRW)

- Cost competitive vs **Segmental Retaining Walls** with the strength and reliability of steel reinforcement.
- Steel strips allow heavy loads to be carried at low strains without long term creep deformation problems (cracked pavements, moved superstructures, etc.).
- Ease and speed of installation compared to extensible reinforcement.
 - ◆ Eliminate geogrid "roll-up" due to HDPE memory.
 - ◆ Eliminate pre-tensioning and anchorage of geogrid.
- Positive mechanical steel pin connection system eliminates facing unit and geogrid separation during backfill and compaction efforts.
- Partial coverage of reinforcement allows steel strips to skew around obstructions.
- Connection capacity of steel strips to SQFT panel is more than 4X that of geogrid connections.
- Maintain vertical wall alignment with inextensible vs extensible reinforcement.
- Backfill cost significantly reduced using 4 inch stone vs $\frac{3}{4}$ inch max allowable gravel with geogrid reinforcement.