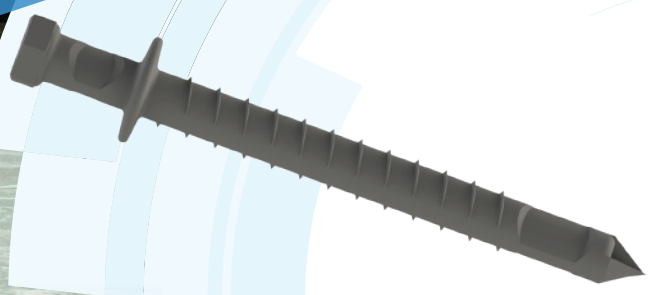


ST150

Standard



		USA	International
Tie Length:		9.25 in	235 mm
Embedment Depth:	(head) (tip)	1.5 in 1.75 in	38 mm 44 mm
Diameter Through Foam:		0.70 in	17.8 mm
Insulation Thickness:		6 in	150 mm
Structural Wythe Thickness:		minimum 2 in	minimum 50 mm
Fascia Wythe Thickness:		2–4 in	50–100 mm
Ultimate Tensile/Pullout[1]:		1,660 lb	7.38 kN
Shear Strength:		1,700 lb	7.56 kN
Ultimate Panel Shear Capacity/Tie:		800 lb	3.56 kN
Alkaline Resistance:		Excellent[2]	
Impact Resistance:		Excellent[3]	
Fire Performance:		Resist 300-lb tension load for over 90 minutes when fire tested per Section 7.4.3 of ASTM E1512-01	
Thermal Conductivity:		2.1 Btu-in/hr-ft^2 °F 0.30 W/m°K	

1 Concrete f'c = 3,000 psi

2 99.1% retained strength after 3,000 hours of conditioning in pH12 solution, Testing of HK Composite Low Conductivity Ties to ICC-ES AC320 Criteria, Report Number: ESP014387P.1, March 5, 2014, Element Materials Technology, 662 Cromwell Avenue, St. Paul, MN 55114-1720 USA

3 The un-notched Izod Impact testing: 21 ft-lb/in (1100 J/m)

DISCLAIMER OF LIABILITY: It is the sole responsibility of the contractor to install the HK ties in accordance with the published instructions. It is also the responsibility of the owner to confirm proper industry standards and methods are used by contractors, engineers, suppliers, and all others hired by the owner. The presence of an HK Composites representative at the job site does not relieve the contractor from the responsibility to follow published installation instructions. HK COMPOSITES IS NOT RESPONSIBLE FOR ANY LIABILITY RESULTING FROM A FAILURE TO FOLLOW THESE INSTRUCTIONS. Our recommendations should not be taken as a construction specification nor inducements to infringe on any patent or violate any law, safety code or insurance regulation

U.S. Patents D804,288 S 10,000,928 B2 5,519,973 5,830,399 5,987,834 5,809,723 6,112,491 | Canadian Patent 2,187,284 | Australian Patent 687,367 | European Patent 0745265 | Mexican Patent 201,274 | Chinese Patent ZL 95192498.2 | Japanese Patent 3,604,14

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Made in the USA

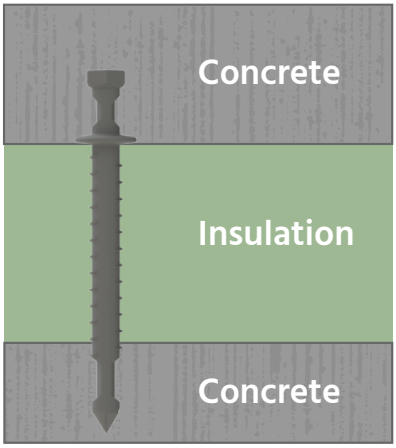
Low-Conductivity Wall Tie

APPLICATION

Connects tilt-up and precast insulated concrete sandwich panels with maximum thermal performance.

INSTALLATION

Review ST Tie Installation Instructions before using



CONTACT US

Toll-Free: 1-800-430-6316
International: 801-763-0907

926 S Auto Mall Dr, Ste 4
American Fork, UT 84003

hkties.com