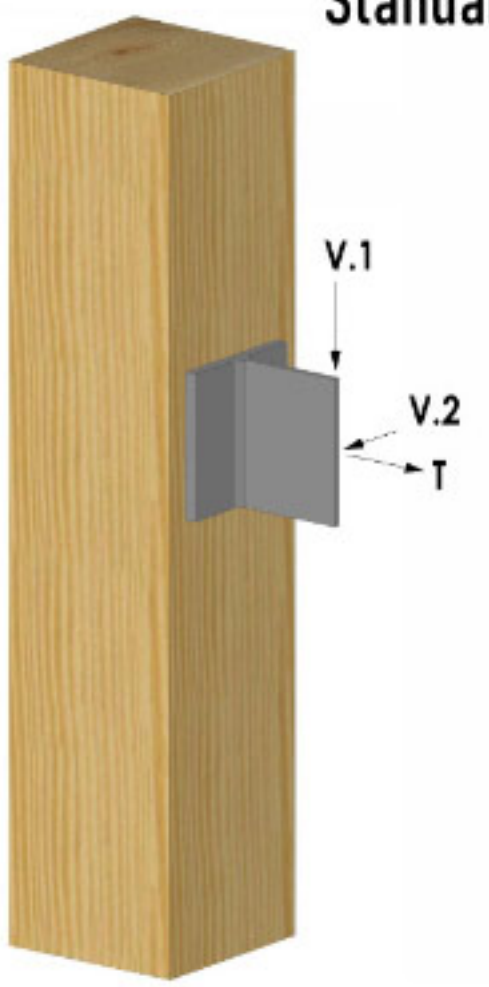
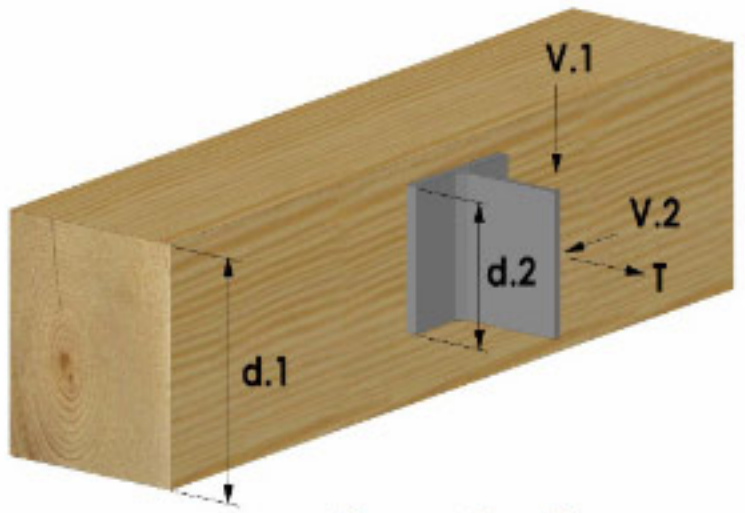
TIDEWATER
Lumber and Mouldings

"Wood is Wonderful"

Standard Post Connector (6x6)

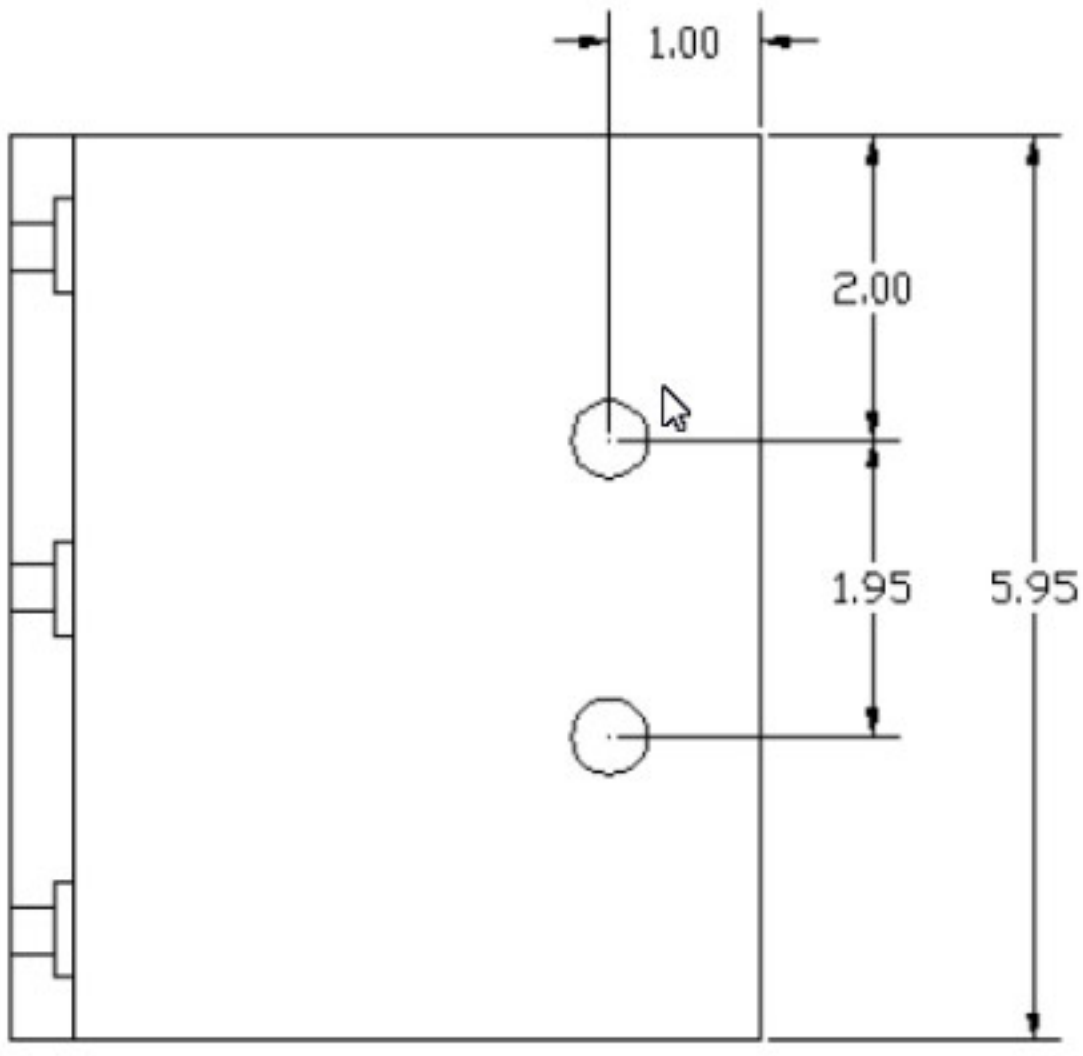


Connection A



Connection B

Connection orientation and loading directions



6x6 Connector plate, pin connection layout.
Units: Inches

596 Anderson Ridge Rd
Greer, SC 29651
864-987-9663

Connection capacity using 5/16" x 3 1/8" GRK RSS wood screws[1,2], Units: lb

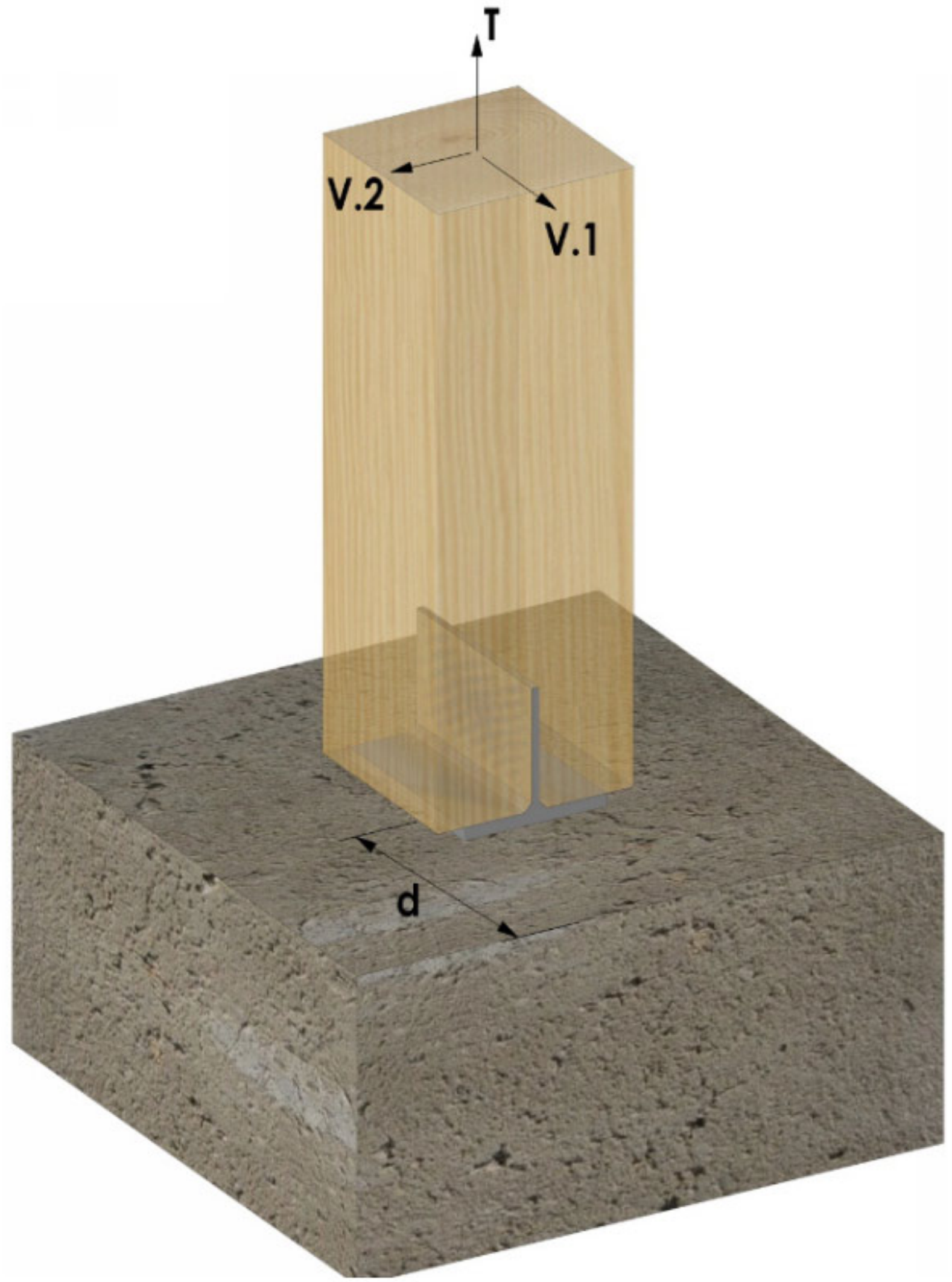
Timber Species	Load Duration, C_D	Connection A			Connection B[3]		
		T	$V_{.1}$	$V_{.2}$	T	$V_{.1}$	$V_{.2}$
Eastern White Pine (G = 0.36)	1.0	1318	997	331	1318	997	331
	1.15	1516	1146	381	1516	1146	381
	1.6	2109	1595	530	2109	1595	530
Douglas Fir (G = 0.5)		T	$V_{.1}$	$V_{.2}$	T	$V_{.1}$	$V_{.2}$
	1.0	2543	1923	451	2543	1923	451
	1.15	2925	2212	518	2925	2212	518
	1.6	4069	3078	721	4069	3078	721
Red Oak (G = 0.67)		T	$V_{.1}$	$V_{.2}$	T	$V_{.1}$	$V_{.2}$
	1.0	3900	2356	411	3900	2356	411
	1.15	4485	2710	473	4485	2710	473
	1.6	6240	3770	658	6240	3770	658

Connection capacity using 5/16" x 5 1/8" GRK RSS wood screws[1,2], Units: lb

Timber Species	Load Duration, C_D	Connection A			Connection B[3]		
		T	$V_{.1}$	$V_{.2}$	T	$V_{.1}$	$V_{.2}$
Eastern White Pine (G = 0.36)	1.0	2171	1642	331	2171	1642	331
	1.15	2497	1889	381	2497	1889	381
	1.6	3474	2628	530	3474	2628	530
Douglas Fir (G = 0.5)		T	$V_{.1}$	$V_{.2}$	T	$V_{.1}$	$V_{.2}$
	1.0	3900	2356	451	3900	2356	451
	1.15	4485	2710	518	4485	2710	518
	1.6	6240	3770	721	6240	3770	721
Red Oak (G = 0.67)		T	$V_{.1}$	$V_{.2}$	T	$V_{.1}$	$V_{.2}$
	1.0	3900	2356	411	3900	2356	411
	1.15	4485	2710	473	4485	2710	473
	1.6	6240	3770	658	6240	3770	658

[1] Capacities for species not shown may be linearly interpolated based on specific gravity.
[2] Capacities for the 6x8 and larger connector plates are identical to those shown. Use of the connectors with 8x material also achieves the same capacity.
[3] Depth of supporting member, d_2 must be at least 2" deeper than the supported member, d_1

Post Connector to concrete



Connection orientation and loading directions

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Connection capacity (lb) for the following conditions

- (2) 1/2" diameter 6061 Aluminum pins in post
- (4) 19/64" diameter, 5" long GRK Calburn screws into concrete
- Normal load duration (C_D = 1.0)
- 4,000 psi concrete strength

Service-level capacity (lb) for various loadings

Loading	Eastern White Pine	Douglas Fir	Red Oak
Uplift (T)	2,400	2,800	3,200
Shear (V.1)	1,400	1,700	2,100
Shear (V.2)	600	820	750

Notes:

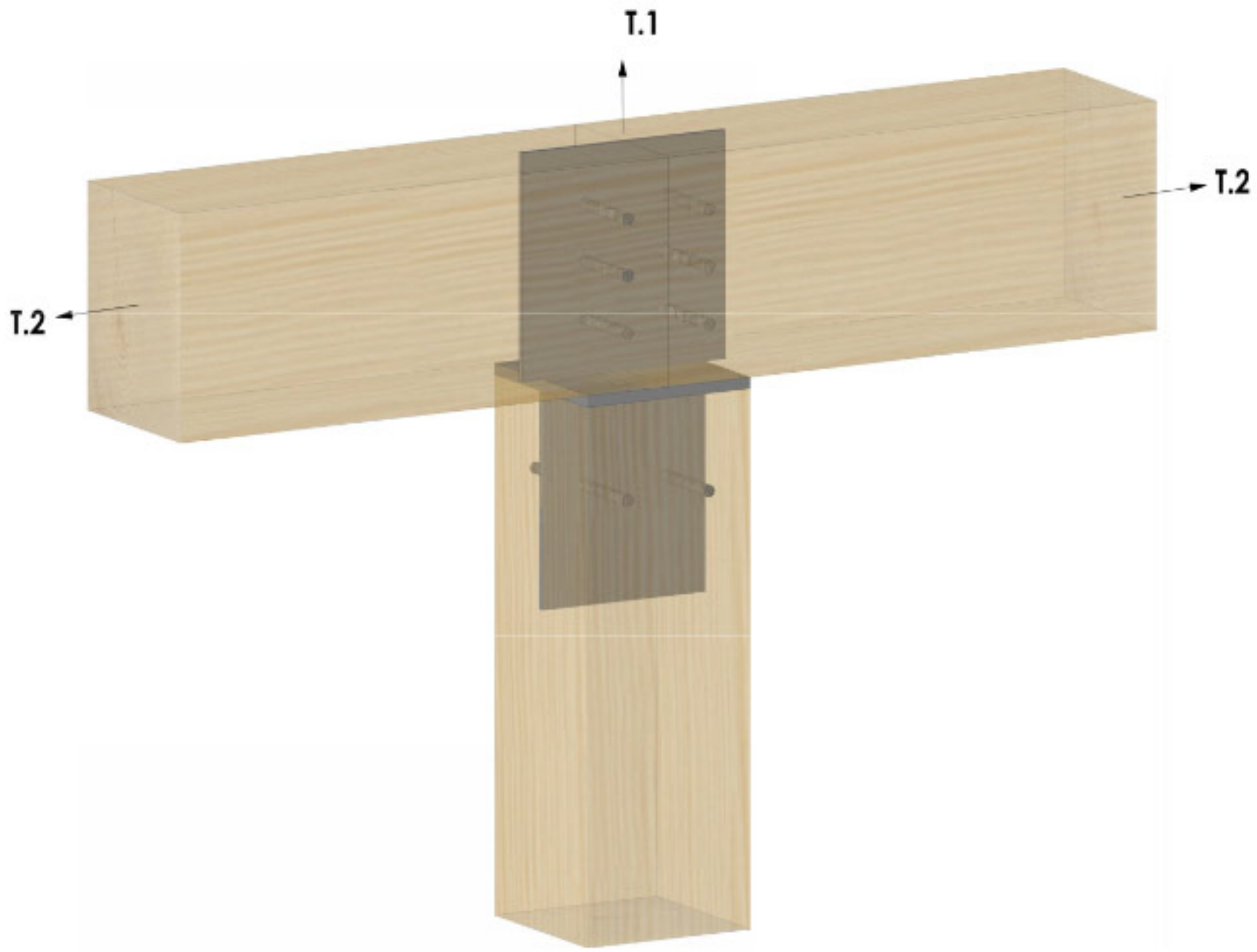
The above capacities do not consider the resistance of the concrete foundation to breakout, side-face blowout, or pryout. Determination of the resistance for these limit states is the responsibility of qualified design professional.

Post bases should not be used to resist permanent / long-term loading.

Post bases should be installed directly to the concrete. If the post base sits atop a 2x (1 ½" net thickness) sill plate rather than directly on the concrete, use the V.2 shear capacity for each direction.

The capacities listed apply to 6x and 8x connections.

Timber 3-Way Connector



Connection orientation and loading directions

Connection capacity (lb) for the following conditions

- Minimum 6x10 beams and 6x8 post
- 1/2 "diameter, 8 "long, 6061 Aluminum pins (3 in each beam & 2 in the post, 8 total)
- 5/16 "diameter, 3 1/2 "long GRK RSS screws into post end-grain (for assembly only)
- Normal load duration (CD = 1.0)

Service-level Connection Capacity (lb)

Loading	Eastern White Pine	Douglas Fir	Red Oak
Uplift on Post (T.1)	2,400	2,800	3,200
Tension Beam to Beam (T.2)	3,600	4,200	4,800

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