

# ETB

## Hidden Connector Kit

The ETB hidden connector provides a load-tested beam connection without any visible hardware. Interlocking plates are fastened onto each member and lock together for a secure structural connection.

**Material:** Plates — Aluminum 6082-T6

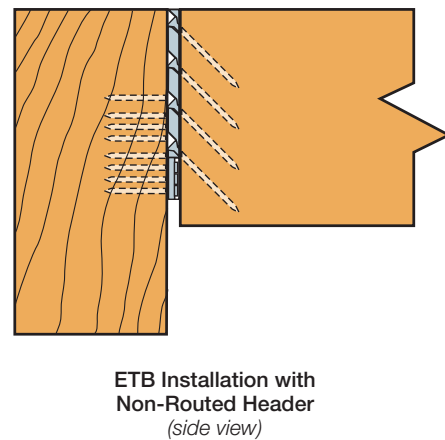
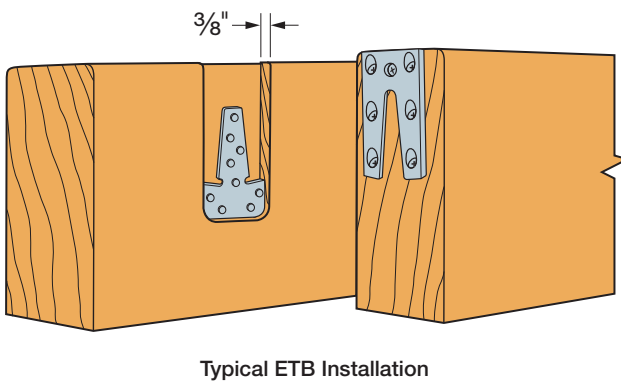
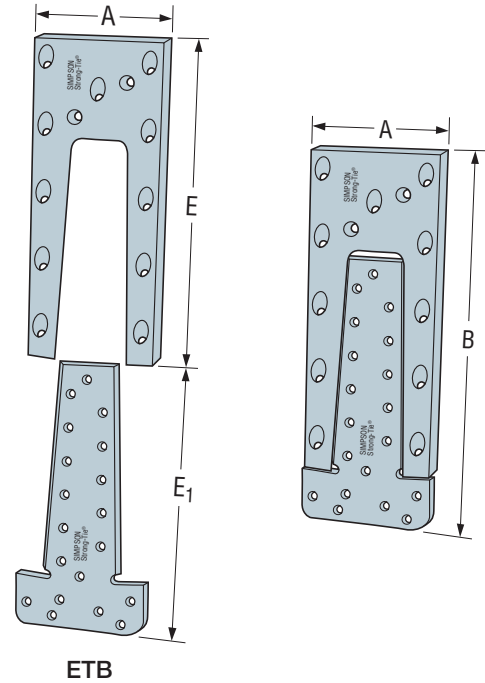
**Finish:** Plates — none; screws — Dacromet® corrosion resistant coating

**Installation:**

- Use all specified fasteners; see General Notes.
- Rout a 3/8" (10mm) deep pocket into the side of the supporting beam as shown for the lower plate.
- Install lower plate with 16d hot-dip galvanized nails (not included in kit).
- Install horseshoe plate onto end of supported beam using SCRBS screws supplied in kit. Screws are installed at a downward angle (approx. 45°).

### Dimensional and Fabrication Information

Model No.	Dimensions (in.)					
	A	B	E	E <sub>1</sub>	t <sub>1</sub>	t <sub>2</sub>
ETB90	2.36	3.62	2.72	2.26	0.236	0.393
ETB160	2.36	6.61	5.12	3.74	0.236	0.393
ETB230	2.95	9.13	7.87	5.43	0.236	0.393



## ETB

## Hidden Connector Kit (cont.)

Model No.	Fasteners		Joist Size	Factored Resistance ( $K_D = 1.00$ )		
				D.Fir-L	S-P-F	Northern
	( $K_D = 1.00$ )	( $K_D = 1.00$ )		( $K_D = 1.00$ )		
	lb.	lb.		lb.		
Header	Joist		kN	kN	kN	
ETB90	(6) 16d HDG	(5) SPAX 5x80 SCRB screw	4x6	1870	1525	1325
				8.34	6.78	5.89
			4x8	1675	1325	1145
				7.45	5.89	5.09
			4x10	1545	1220	1060
				6.87	5.43	4.72
			4x12	1415	1120	970
				6.29	4.98	4.31
6x6	1870	1640	1385			
	8.32	7.30	6.16			
6x8	1870	1640	1385			
	8.32	7.30	6.16			
6x10	1870	1535	1280			
	8.32	6.83	5.69			
6x12	1755	1410	1175			
	7.81	6.27	5.23			
ETB160	(11) 16d HDG	(10) SPAX 5x80 SCRB screw	4x8	3430	2965	2545
				15.26	13.19	11.32
			4x10	3430	2740	2375
				15.26	12.19	10.56
			4x12	3175	2510	2175
				14.12	11.17	9.68
6x8	3430	2985	2545			
	15.26	13.28	11.32			
6x10	3430	2985	2545			
	15.26	13.28	11.32			
6x12	3430	2985	2545			
	15.26	13.28	11.32			
ETB230	(19) 16d HDG	(16) SPAX 5x80 SCRB screw	4x12	4925	3890	3375
				21.91	17.30	15.01
6x12	5930	4420	3770			
	26.38	19.66	16.77			

1. Factored resistances assume standard term load duration; reduce value where other load durations govern. Do not increase value for short term load duration.
2. Factored resistances have been calculated in accordance with CSA O86-14 assuming dry service condition ( $K_S = 1.00$ ) and seasoned lumber (moisture content  $\leq 15\%$ ) at time of fabrication. For unseasoned lumber (moisture content  $> 15\%$ ) multiply tabulated values by 0.80. For wet service condition multiply tabulated values by 0.67.
3. Do not use ETB connectors with preservative-treated woods.
4. Factored resistances shown are the lower of the test value, the fastener capacity or the effective shear capacity of the joist assuming joist and headers are same species.
5. Substitution for fasteners is not permitted. All fasteners must be used as specified.
6. **Nails:** 16d HDG = 0.162" dia. x 3½" long hot-dip galvanized.