

TECTUM® I Diaphragm Design Data

Fastener Spacing Schedule

Type	Panel Size	Test No.	Joist	Span ⁴	Fasteners	Field Spacing ²	Perimeter	Adhesive ^{1,3}	Grout	ULT/LF	DSN/LF
T-I Plank	3" x 31" x 96"	88-3113-1	Steel	48"	S-25/2" Washer	3/Joist/Panel	16" o.c.	No	None	825	275
T-I Plank	3" x 31" x 96"	88-3113-1	Steel	48"	S-25/2" Washer	3/Joist/Panel	16" o.c.	T & G + Joist	None	1350	450
T-I LS	2-1/2" x 31" x 120"	94-30037D	Wood	60"	3/4" 14 Gauge Scr/2"w	2/Joist/Panel	10" o.c. sides + ends	T & G + Joist	None	1170	389
T-I LS	3" x 31" x 144"	94-30037D	Wood	72"	4-1/2" 14 Gauge Scr/2"w	2/Joist/Panel	12" o.c. sides + ends	T & G + Joist	None	860	286
T-I LS	2" x 31" x 96"	95-30270	Wood	48"	3-1/2" 14 Gauge Scr/2"w	2/Joist/Panel	12" o.c. sides + ends	T & G + Joist	None	964	321
T-I LS ⁵	3" x 31" x 144"	02-030070B	Wood	72"	4-1/2" 14 Gauge Scr/2"w	2/Joist/Panel	12" o.c. sides + ends	T & G + Joist	None	1631	542
T-I Tile	2" x 23-1/2" x 143"	88-3113-1	Steel	72"	112 Ts/112 x Ts	24" o.c.	112 Ts	No	4 Sides	925	313
T-I Tile	2" x 31-1/2" x 95"	88-3113-1	Steel	96"	168 Ts/112 x Ts	32" o.c.	168 Ts	No	4 Sides	575	200
T-I RT/TG	2" x 31-1/2" x 96"	91-3222	Steel	96"	000-5-14-2+S-25/2"w	32" o.c. + 2/Joist	S-25@16"+3/end	T & G + Per	Long Edge	696	231
T-I Tile	2" x 31-1/2" x 95"	94-30037H	Steel	96"	000-5-14-2+S-25/2"w	2/Joist	10-1/2" o.c.	Joist	Long Edge	835	278
T-I Tile ⁵	2" x 31-1/2" x 96"	02-030070A	Steel	96"	218 Ts/3-1/4" 14 Gauge/2"w	2/Joist/Panel	12" o.c. sides + ends	Joist	Long Edge	1530	509

- Notes: 1. Adhesives must meet the requirements of AFG-01. A 3/8" bead of adhesive is to be used. Approximately 38 linear feet of adhesive per quart tube.
 2. All panels were installed with staggered ends except Tectum® I tile with 168 bulb tees and Tectum® III tile on truss tees.
 3. Specific adhesive used on test assemblies was Miracle Construction Adhesive SFA-66.
 4. Values over wood joists are conservative when supports are steel.
 5. See Technical Bulletin T-77 for more information. Call for assistance when designing and detailing this Tectum® Roof Deck system.

Contact Armstrong® Techline for test report data — techline@armstrongceilings.com

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armstrongbuildingsolutions.com/tectum

BPRD-1019-1117

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