

DIAPHRAGM DESIGN DATA

TECTUM ROOF DECK 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	2½" x 31" x 120"	94 - 30037D	Wood	60"	3¾" 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"	4½" 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"	3½" 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"	4½" 14 Gauge Scr/2"w	2/Joist/Panel	12" o.c. sides + ends	T & G + Joist	None	1631	542
T-I Tile	2" x 23½" 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 31½" 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 31½" 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 31½" x 95"	94 - 30037H	Steel	96"	000-5-14-2+S-25/2"w	2/Joist	10½" o.c.	Joist	Long Edge	835	278
T-I Tile ⁵	2" x 31½" x 96"	02 - 030070A	Steel	96"	218 Ts/3¾" 14 Gauge/2"w	2/Joist/Panel	12" o.c. sides + ends	Joist	Long Edge	1530	509

- NOTES:
1. Adhesives is to meet the requirements of AFG-01. A 3/8" bead of adhesive is to be used. Approximately 38 lin. Ft. 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.
 6. Tectum E and III Roof Deck Panels produce equivalent results.

Please click on the test number to view or download the actual test.