

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-III Plank	3½" x 47" x 144"	94-30037A	Wood	72"	6" 14 Gauge Sip Scr	3/Joist/Panel	12" o.c. sides + ends	T & G + Joist	None	1068	355
T-III Plank	3½" x 47" x 120"	94-30037B	Wood	60"	6" 14 Gauge Sip Scr	3/Joist/Panel	12" o.c. sides + ends	T & G + Joist	None	1093	363
T-III Plank	5" x 47" x 144"	94-30037E	Wood	72"	6" 14 Gauge Sip Scr	3/Joist/Panel	12" o.c. sides + ends	T & G + Joist	None	964	320
T-III Tile	3½" x 47½" x 96"	95-30060	Steel	96"	000-3-14-3½"+14GA/1½"w	3/Joist/Panel	12" o.c. sides + ends	Joist	Long Edge	939	312
T-E Plank	4" x 47" x 144"	94 - 30037C	Wood	72"	6" 14 Gauge Sip Scr	3/Joist/Panel	12" o.c. sides + ends	T & G + Joist	None	1042	346
T-E Plank	5" x 47" x 168"	98030199	Wood	84"	6" 14 Gauge Sip Scr	3/Joist/Panel	12" o.c. sides + ends	T & G + Joist	None	1012	336
T-E Plank	5" x 48" x 96"	98030321	Wood	96"	6" 14 Gauge Sip Scr	4/Joist/Panel	12" o.c. sides + ends	T & G + Joist	None	604	201
T-III Plank	5" x 47" x 144"	92-3777	Wood	72"	6" 14 Gauge Scr/1½"w	6/Joist/Panel	6" o.c. sides + ends	T & G + Joist	None	2363	786
Overlay	7/16" x 48" x 144"		OSB	---	2" x 16 Gauge Staples	8"@24" Centers	4" o.c. sides + ends	Per & 24" o.c.	None		
T-E Plank	5" x 47" x 96"	98030262	Wood	96"	6" 14 Gauge Sip Scr	4/Joist/Panel	8" o.c. sides + ends	T & G + Joist	None	1315	437
Overlay	7/16" x 48" x 144"		OSB	---	2" x 16 Gauge Staples	8" @ 24" Centers	4" o.c. sides + ends	Per & 24" o.c.	None		

- 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.