

# TECTUM® III/E Diaphragm Design Data

## Fastener Spacing Schedule

Type	Panel Size	Test No.	Joist	Span <sup>4</sup>	Fasteners	Field Spacing <sup>2</sup>	Perimeter	Adhesive <sup>1,3</sup>	Grout	ULT/LF	DSN/LF
T-III Plank	3-1/2" 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	3-1/2" 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	3-1/2" x 47-1/2" x 96"	95-30060	Steel	96"	000-3-14-3-1/2"+14GA/1-1/2"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"		Wood	72"	6" 14 Gauge Scr/1-1/2"w	6/Joist/Panel	6" o.c. sides + ends	T & G + Joist	None		
Overlay	7/16" x 48" x 144"	92-3777	OSB	---	2" x 16 Gauge Staples	8"@24" Centers	4" o.c. sides + ends	Per & 24" o.c.	None	2363	786
T-E Plank	5" x 47" x 96"		Wood	96"	6" 14 Gauge Sip Scr	4/Joist/Panel	8" o.c. sides + ends	T & G + Joist	None		
Overlay	7/16" x 48" x 144"	98030262	OSB	---	2" x 16 Gauge Staples	8" @ 24" Centers	4" o.c. sides + ends	Per & 24" o.c.	None	1315	437

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.

Tectum® E and III Roof Deck Panels produce equivalent results.

Contact Armstrong® Techline for test report data—[techline@armstrongceilings.com](mailto:techline@armstrongceilings.com)

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[armstrongbuildingsolutions.com/tectum](http://armstrongbuildingsolutions.com/tectum)

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