

TER 2010-02: #6, #8, #9, #10 and #14 SPAX® Construction Screws Installation Instructions

1 Installation

- 1.1 Installation shall comply with the approved construction documents, the manufacturer installation instructions, this TER, and the applicable building code.
- 1.2 In the event of a conflict between the manufacturer installation instructions and this TER, the more restrictive shall govern.
- 1.3 SPAX® Construction Screws shall be installed using the driver bits specified in TER 2010-02, as applicable.
- 1.4 Fasteners shall not be struck with a hammer during installation.
- 1.5 Lead holes are not required for SPAX® Construction Screws.
- 1.6 The fastener head must be installed flush to the surface of the wood side member being connected. The fastener must not be overdriven.
- 1.7 Minimum main member penetration is 1½" unless otherwise stated in this TER.
- 1.8 Minimum requirements for fastener spacing, edge distance, and end distance shall be in accordance with Table 1.
 - 1.8.1 Minimum requirements for XFT14P-4000 fastener spacing, edge distance, and end distance are found in Figure 1 and Table 2.

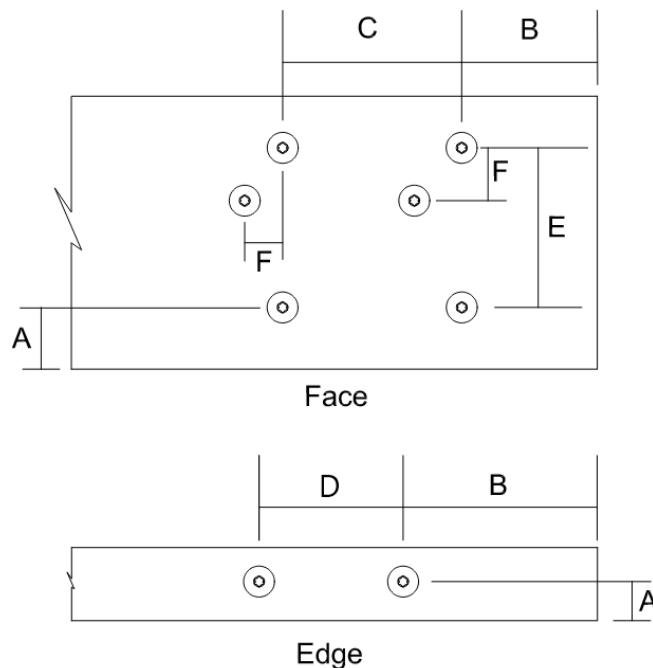


Figure 1. Fastener Spacing in Wood Reference Diagram

Table 1. Minimum Spacing, Edge Distance, and End Distance Requirements

Reference from Figure 1	Connection Geometry	Minimum Spacing/Distance ^{1,2} (in)					
		#6 Flat/Pan/ MDF/Hardwood Trim	#8 Flat/Pan/Wafer MDF/Hardwood Trim	#8 PowerDeck® Trim, #9 Flat	#10 Flat/Pan/Washer	#10 PowerDeck® Trim	#14 Pan
A	Edge Distance – Load in any direction	1/4	3/8	3/8	3/8	1/2	1/2
B	End Distance – Load parallel to grain, towards end	1 1/2	1 3/4	1 7/8	2 1/4	2 3/8	2 5/8
	End Distance – Load parallel to grain, away from end	1	1 1/4	1 1/4	1 1/2	1 5/8	1 3/4
	End Distance – Load perpendicular to grain	1	1 1/4	1 1/4	1 1/2	1 5/8	1 3/4
C	Spacing between Fasteners in a Row – Parallel to grain	1 1/2	1 3/4	1 7/8	2 1/4	2 3/8	2 5/8
D	Spacing between Fasteners in a Row – Perpendicular to grain	1	1 1/4	1 1/4	1 1/2	1 5/8	1 3/4
E	Spacing between Rows of Fasteners – In-line	1/2	5/8	5/8	3/4	7/8	7/8
F	Spacing between Rows of Fasteners – Staggered	1/4	3/8	3/8	3/8	1/2	1/2
SI: 1 in = 25.4 mm 1. Edge distances, end distances, and spacing of fasteners shall be sufficient to prevent splitting of the wood or as shown in this table, whichever is the more restrictive. 2. Values for "Spacing between Rows of Fasteners – Staggered" apply where the fasteners in adjacent rows are offset by one half of the "Spacing between Fasteners in a Row."							

Table 2. Minimum Spacing, Edge Distance, and End Distance Requirements – XFT14P-4000

Reference from Figure 7	Connection Geometry ^{1,2}	Minimum Spacing/Distance ^{1,2} (in)
A	Edge Distance – Load perpendicular to grain	1 1/2
	Edge Distance – Load parallel to grain	3/4
B	End Distance – Load parallel to grain, towards end	1 3/4
	End Distance – Load parallel to grain, away from end	3/4
	End Distance – Load perpendicular to grain	3/4
C	Spacing between Fasteners in a Row – Parallel to grain	1 3/4
D	Spacing between Fasteners in a Row – Perpendicular to grain	7/8
E	Spacing between Rows of Fasteners – In-line	1/2
F	Spacing between Rows of Fasteners – Staggered	1/2
SI: 1 in = 25.4 mm 1. Edge distances, end distances, and spacing of fasteners shall be sufficient to prevent splitting of the wood or as shown in this table, whichever is the more restrictive. 2. Values for "Spacing between Rows of Fasteners-Staggered" apply where the fasteners in adjacent rows are offset by one half of the "Spacing between Fasteners in a Row"		