

**Deck-Drive™**  
**DSV WOOD Screw**



**Drive up to 35%  
More Screws per  
Battery Charge**

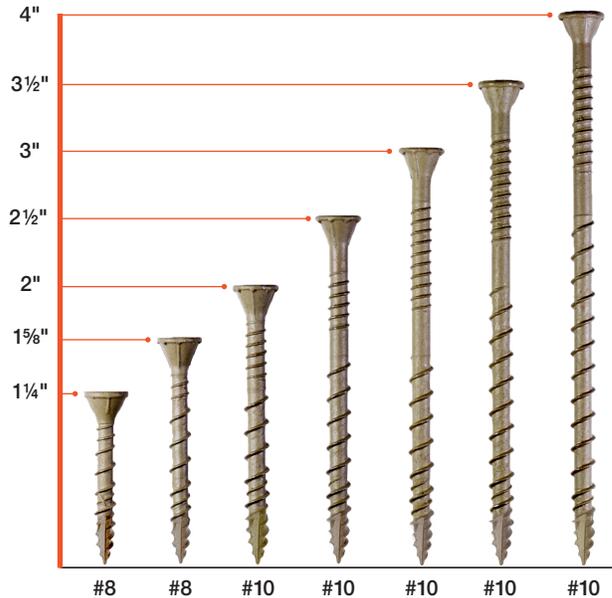
**Now Load Rated!**

Preservative-Treated  
Decking and Exterior  
Wood-to-Wood  
Applications

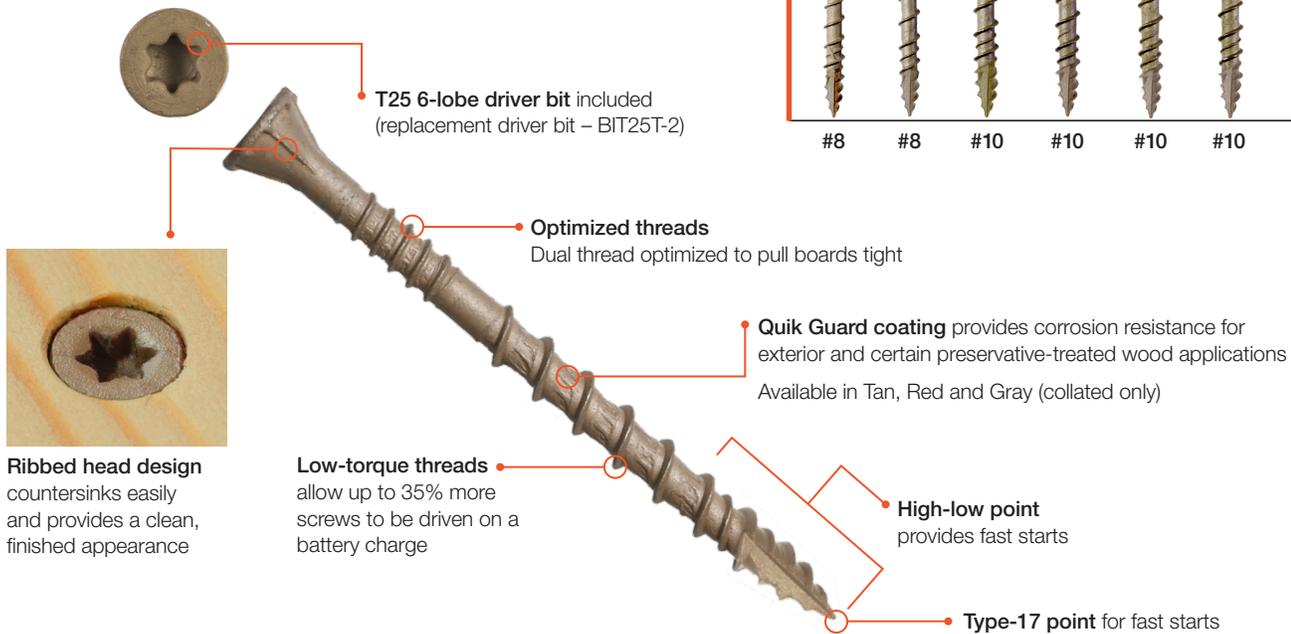
(800) 999-5099  
strongtie.com

## Deck-Drive™ DSV WOOD Screw

The Deck-Drive DSV WOOD screw is a powerful fastening solution for preservative-treated and exterior wood-to-wood decking applications. DSV screws are offered with Quik Guard® coating in Tan, Red and Gray (collated only) and in a variety of sizes to fasten fascia and trim. With its underhead ribs and “high-low” point, the DSV is ideally suited to be driven and countersunk into today’s wood deck boards. The shank is designed to withstand the swelling and shrinkage that is common with sawn lumber decking. Available in bulk and in collated strips for use in our Quik Drive® auto-feed screw driving system.



### Features



**Ribbed head design**  
countersinks easily and provides a clean, finished appearance

### Now Load Rated

Simpson Strong-Tie #10 Deck-Drive DSV Wood screws are designed for preservative-treated decking applications and can also be used for general framing and construction with wood and engineered wood products. The screws have been tested in accordance with ICC-ES Acceptance Criteria AC233 (*Acceptance Criteria for Dowel-type Threaded Fasteners Used in Wood*), and are load rated for shear, pull-through and withdrawal resistance. Quik Guard coating provides corrosion resistance for exterior and certain preservative-treated wood applications.

### Allowable Shear Loads

Size x Length (in.)	Model No.	Thread Length (in.)	DFL/SP Reference Allowable Shear Load (lb.)				SPF/HF Reference Allowable Shear Load (lb.)			
			Side Member Thickness (in.)				Side Member Thickness (in.)			
			1.5	2.0	2.5	3.0	1.5	2.0	2.5	3.0
#10 x 2½	DSV212	1½	106	—	—	—	83	—	—	—
#10 x 3	DSV3	1½	173	99	—	—	131	80	—	—
#10 x 3½	DSV312	2	173	173	99	—	131	131	80	—
#10 x 4	DSV4	2½	173	173	173	99	131	131	131	80

- Allowable loads are based on full penetration into the main member. Full penetration is the screw length minus the side member thickness.
- Allowable loads are shown at the wood load duration factor of  $C_D = 1.0$ . Loads may be increased for load duration per the building code up to a  $C_D = 1.6$ . Tabulated values must be multiplied by all applicable adjustment factors per the NDS. For in-service moisture content greater than 19%, use  $C_M = 0.62$ .
- Loads are based on installation into the side grain of the wood with the screw axis perpendicular to the face of the member.
- Loads are based on tests of connections made with same species as main and side members.
- Engineered wood must have a minimum grade of modulus of elasticity value of 0.80E and have a minimum equivalent specific gravity at least 0.50 to use the DFL/SP values or 0.42 to use the SPF/HF values.

# Deck-Drive™ DSV WOOD Screw Product Information

## Allowable Withdrawal and Pull-Through Loads

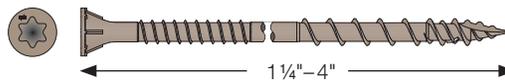
Size x Length (in.)	Model No.	Thread Length (in.)	Reference Allowable Withdrawal, W (lb./in.)		Reference Maximum Withdrawal, W <sub>max</sub> (lb.)		Reference Pull-Through (lb.)	
			DFL/SP	SPF/HF	DFL/SP	SPF/HF	DFL/SP	SPF/HF
#10 x 2	DSV2	1¼	121	94	150	115	174	154
#10 x 2½	DSV212	1½			180	140		
#10 x 3	DSV3	1½			180	140		
#10 x 3½	DSV312	2			240	190		
#10 x 4	DSV4	2½			300	235		

- The tabulated Reference Allowable Withdrawal design value, W, is in pounds per inch of the thread penetration into the side grain of the main member.
- The tabulated Reference Maximum Withdrawal design value, W<sub>max</sub>, is in pounds where the entire end thread length is embedded into the side grain of the main member.
- Reference withdrawal design values, W and W<sub>max</sub>, are shown at C<sub>D</sub> = 1.0. Loads may be increased for load duration per the building code up to C<sub>D</sub> = 1.6. Tabulated values must be multiplied by all applicable adjustment factors from the NDS. For in-service moisture content greater than 19%, use C<sub>M</sub> = 0.70.
- Embedded thread length is that portion of the end threads in the main member including the screw tip.
- Reference Pull-Through values are based on pull-through of a 1½"-thick side member.
- Engineered wood must have a minimum grade of modulus of elasticity value of 1.55E and have a minimum equivalent main member in specific at least 0.50 to use the DFL/SP values or 0.42 to use the SPF/HF values.

## Connection Geometry

Condition		Minimum Distance or Spacing (in.)	Reduction Factor
Edge distance	Perpendicular-to-grain loading	¾	0.91
	Parallel-to-grain loading	½	1.00
End distance	Perpendicular-to-grain loading	4	0.91
	Parallel-to-grain loading	4	1.00
Spacing between fasteners in a row	Perpendicular-to-grain loading	2	0.75
	Parallel-to-grain loading	2	1.00
Spacing between row	Perpendicular-to-grain loading	Non-staggered row	1
		Staggered rows	1
	Parallel-to-grain loading	Non-staggered row	1
		Staggered rows	1

- Edge distances, end distances, and spacing of the screws must be sufficient to prevent splitting of the wood, or as required by this table, or when applicable as recommended by the structural composite lumber manufacturer, whichever is the most restrictive.
- Allowable shear loads shall be multiplied by the applicable tabulated reduction factors when used in the corresponding geometry.



## Quik Guard® Coating, Tan

Size	Length (in.)	Approx. Count per Pound	1 lb. Model No.	5 lb. Model No.	350 ct. Model No.	Mini-Bulk	
						Model No.	Count
#8	1¼	194	DSVT114R1LB	DSVT114R5LB	DSVT114R350	DSVT114MB	1,750
#8	1½	159	DSVT158R1LB	DSVT158R5LB	DSVT158R350	DSVT158MB	1,750
#10	2	113	DSVT2R1LB	DSVT2R5LB	DSVT2R350	DSVT2MB	1,750
#10	2½	91	DSVT212R1LB	DSVT212R5LB	DSVT212R350	DSVT212MB	1,750
#10	3	76	DSVT3R1LB	DSVT3R5LB	DSVT3R350	DSVT3MB	1,750
#10	3½	66	DSVT312R1LB	DSVT312R5LB	DSVT312R350	DSVT312MB	1,000
#10	4	59	DSVT4R1LB	DSVT4R5LB	DSVT4R350	DSVT4MB	1,000

## Quik Guard Coating, Tan — Collated for Quik Drive® Systems

Size	Length (in.)	500 ct. Model No.	750 ct. Model No.	1,000 ct. Model No.	1,500 ct. Model No.	2,000 ct. Model No.	Compatible Systems		
							PRO 300S	PRO 250	PRO 200S
# 8	1¼	—	HCKDSVT114S	—	—	DSVT114S			✓
# 8	1½	—	HCKDSVT158S	—	—	DSVT158S		✓	✓
#10	2	—	HCKDSVT2S	—	DSVT2S	—	✓	✓	✓
#10	2½	HCKDSVT212S	—	DSVT212S	—	—	✓	✓	
#10	3	HCKDSVT3S	—	DSVT3S	—	—	✓		

## Deck-Drive™ DSV WOOD Screw Product Information (cont.)

### Quik Guard Coating, Red



Size	Length (in.)	Approx. Count per Pound	1 lb. Model No.	5 lb. Model No.	350 ct. Model No.	Mini-Bulk	
						Model No.	Count
#8	1 1/4	194	DSVR114R1LB	DSVR114R5LB	DSVR114R350	DSVR114MB	1,750
#8	1 5/8	159	DSVR158R1LB	DSVR158R5LB	DSVR158R350	DSVR158MB	1,750
#10	2	113	DSVR2R1LB	DSVR2R5LB	DSVR2R350	DSVR2MB	1,750
#10	2 1/2	91	DSVR212R1LB	DSVR212R5LB	DSVR212R350	DSVR212MB	1,750
#10	3	76	DSVR3R1LB	DSVR3R5LB	DSVR3R350	DSVR3MB	1,750
#10	3 1/2	66	DSVR312R1LB	DSVR312R5LB	DSVR312R350	DSVR312MB	1,000
#10	4	59	DSVR4R1LB	DSVR4R5LB	DSVR4R350	DSVR4MB	1,000

### Quik Guard Coating, Red — Collated for Quik Drive Systems

Size	Length (in.)	500 ct. Model No.	750 ct. Model No.	1,000 ct. Model No.	1,500 ct. Model No.	2,000 ct. Model No.	Compatible Systems		
							PRO 300S	PRO 250	PRO 200S
#8	1 1/4	—	HCKDSVR114S	—	—	DSVR114S			✓
#8	1 5/8	—	HCKDSVR158S	—	—	DSVR158S		✓	✓
#10	2	—	HCKDSVR2S	—	DSVR2S	—	✓	✓	✓
#10	2 1/2	HCKDSVR212S	—	DSVR212S	—	—	✓	✓	
#10	3	HCKDSVR3S	—	DSVR3S	—	—	✓		

### Quik Guard Coating, Gray — Collated for Quik Drive Systems



Size	Length (in.)	500 ct. Model No.	750 ct. Model No.	1,000 ct. Model No.	1,500 ct. Model No.	2,000 ct. Model No.	Compatible Systems		
							PRO 300S	PRO 250	PRO 200S
#10	2 1/2	—	—	DSVG212S	—	—	✓	✓	
#10	3	—	—	DSVG3S	—	—	✓		

## Save Time and Money with Higher Installation Speeds and Consistent Performance

The Cordless Quik Drive® PRO300S Decking System is ideal for driving collated Deck-Drive™ DSV Wood screws. Stand-up driving allows for improved labor-savings with less user fatigue and better consistency.

### The Cordless PRO300S Decking System Includes:

- PRO300S decking attachment
- Lightweight extension for stand-up driving
- Decking nose clip for consistent screw placement
- Soft tool case
- Equipped with 2,000 rpm DeWalt® screwdriver motor
- Battery charger with two lithium-ion batteries
- Lifetime warranty  
(see [strongtie.com/warranty](http://strongtie.com/warranty) for more information)



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