



# SIP ACCESSORY

## Wood Screw

R-Control® Wood Screws are used to attach R-Control SIPs (Structural Insulated Panels) to wood structural members and substrates. The R-Control Wood Screw is strong and costs less than other systems using screws and stress plates or spikes.

Available in the following lengths:

3 in.	3-1/2 in.	4 in.	4-1/2 in.	5 in.
5-1/2 in.	6 in.	6-1/2 in.	7 in.	7-1/2 in.
8 in.	8-1/2 in.	9 in.	10 in.	11 in.
12 in.	13 in.	14 in.	15 in.	16 in.
18 in.				

R-Control wood screws may also be used for installation into concrete or CMU. For installation into concrete or CMU, predrill with 3/16 in. masonry bit. Install using a low rpm/high torque screw gun.

## Light Duty Metal Screws

R-Control Light Duty Metal Screw are for installation into wood, light gauge steel framing (22 - 18 ga.), and corrugated steel decking (22 - 18 ga.).

Available in the following lengths:

3 in.	3-1/2 in.	4 in.	4-1/2 in.	5 in.
5-1/2 in.	6 in.	6-1/2 in.	7 in.	7-1/2 in.
8 in.	8-1/2 in.	9 in.	10 in.	11 in.
12 in.	13 in.	14 in.	15 in.	16 in.
18 in.				

R-Control light duty metal screws may also be used for installation into concrete or CMU. For installation into concrete or CMU, predrill with 3/16 in. masonry bit. Install using a maximum 2,500 rpm screw gun.

## Heavy Duty Metal Screws

R-Control Heavy Duty Metal Screws are for installation into 16 ga. to 3/8 in. steel members. For installation into steel over 3/8 in. thickness, predrill with a #8 bit (0.199 in.) Install using a maximum 2,000 rpm screw gun.

Available in the following lengths:

6 in.	8 in.	9-3/4 in.	11-3/4 in.	13-3/4 in.
-------	-------	-----------	------------	------------



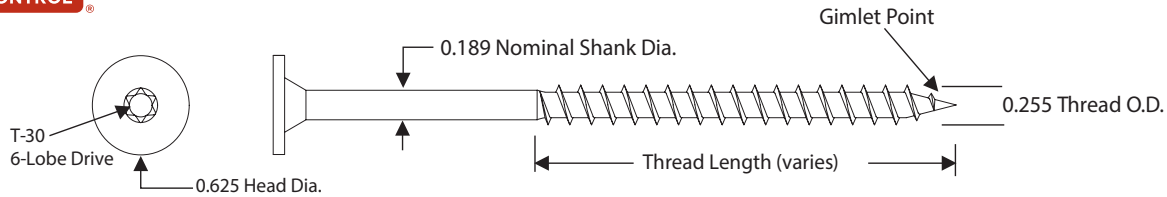
# CONTROL, NOT COMPROMISE.®

**R-Control SIP fasteners are engineered and manufactured to give you control over every aspect of your project installation.**

- Easy to install
- 6 lobe drive head for less stripping
- Sits tight to R-Control SIP surface
- Heat treated steel for high strength and durability
- Coated for superior corrosion resistance
- Superior wind up lift strength



# Wood Screw



All values provided below are average ultimate values. As determined by the project architect/engineer, appropriate safety factors must be used in design.

Wood Screw Properties			
Tensile (lbs) AISI S904	Shear (lbs) AISI S904	Bending Yield Strength -Fyb(psi) ASTM F1575	Corrosion Resistance ASTM D6294, ETAG 006
3555	2580	185,000	<15% Red Rust after 30 cycles

Withdrawal: Lumber & Engineered Wood (lbs/in.) <sup>1</sup>							
SPF/HF (0.42)		DF/SP (0.50)		LVL (0.50)		LSL (0.50)	OSB (7/16")
Face Grain	Edge Grain	Face Grain	Edge Grain	Face Grain	Edge Grain	Face Grain	Face
779	615	899	702	556	495	711	265

1. Load values include fastener tip

Withdrawal: Concrete & CMU (lbs) <sup>1</sup>		
2500 psi Concrete	5000 psi Concrete	CMU <sup>2</sup>
682	859	713

1. Fastener penetrates 1" into the concrete or CMU block, including the tip.  
2. Concrete masonry unit (CMU) conforming to ASTM C90.

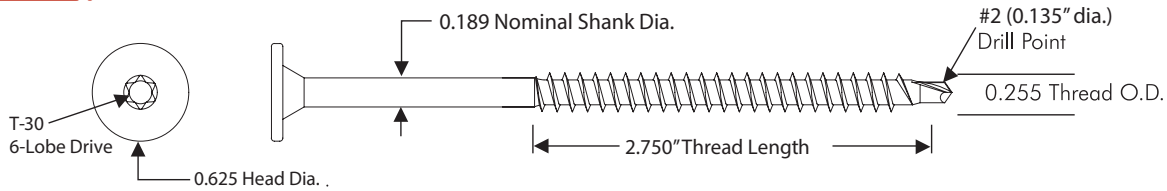
Head Pull-Thru (lbs)	
7/16" OSB	SIP
490	630

Lateral Load Resistance (lbs)		
Main Member	Side Member	Load
SPF <sup>1</sup>	8-1/4" SIP	943

1. 1-3/4" fastener embedment into edge grain, including tip.



# Light Duty Metal Screw



All values provided below are average ultimate values. As determined by the project architect/engineer, appropriate safety factors must be used in design.

Light Duty Metal Screw Properties			
Tensile (lbs) AISI S904	Shear (lbs) AISI S904	Bending Yield Strength -Fyb(psi) ASTM F1575	Corrosion Resistance ASTM D6294, ETAG 006
3390	2490	185,000	<15% Red Rust after 30 cycles

Withdrawal: Corrugated Steel Deck (lbs)						
24 ga. (36 ksi)	22 ga. (36 ksi)	22 ga. (85 ksi)	20 ga. (36 ksi)	18 ga. (36 ksi)	16 ga. (36 ksi)	16 ga. (100 ksi)
250	381	435	449	694	896	1186

\* Minimum 3/4" penetration of fastener through deck from underside of deck

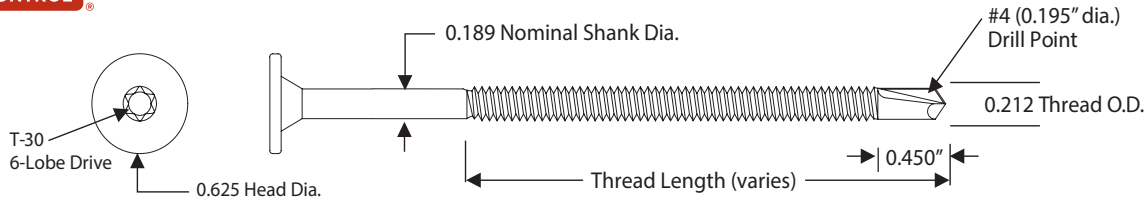
Withdrawal: Lumber & Engineered Wood (lbs/in.) <sup>1</sup>							
SPF/HF (0.42)		DF/SP (0.50)		LVL (0.50)		LSL (0.50)	OSB (7/16")
Face Grain	Edge Grain	Face Grain	Edge Grain	Face Grain	Edge Grain	Face Grain	Face
662	497	732	720	540	469	646	284

1. Load values include fastener tip

Head Pull-Thru (lbs)	
7/16" OSB	SIP
490	630



# Heavy Duty Metal Screw



All values provided below are average ultimate values. As determined by the project architect/engineer, appropriate safety factors must be used in design.

Heavy Duty Metal Screw Properties			
Tensile (lbs) AISI S904	Shear (lbs) AISI S904	Bending Yield Strength - Fyb (psi) ASTM F1575	Corrosion Resistance ASTM D6294, ETAG 006
3855	2625	185,000	<15% Red Rust after 30 cycles

Withdrawal: Structural Steel (lbs) <sup>1</sup>					
16 ga. (36 ksi)	16 ga. (100 ksi)	12 ga. (50 ksi)	1/8" (36 ksi)	3/16" (60 ksi)	1/4" (60 ksi)
491	794	1255	1454	3098	3814

1. Minimum (3) threads of penetration of fastener through deck as measured from underside of steel

Head Pull-Thru (lbs)	
7/16" OSB	SIP
490	630

Lateral Load Resistance (lbs)		
Main Member	Side Member	Load
1/8" Structural Steel <sup>1</sup>	8-1/4" SIP	929

1. Minimum (3) threads of penetration through steel as measured from underside of steel



[sales@thermafoamrcontrol.com](mailto:sales@thermafoamrcontrol.com)  
[www.thermafoamrcontrol.com](http://www.thermafoamrcontrol.com)

Copyright © 2021  
 ThermaFoam R-Control, LLC.  
 All rights reserved. Printed in USA.  
 TFRCSIP08-02/21



203 South Redmond Road  
 Jacksonville, AR 72076

Office: 501-945-1114