

## 2016 FULL LINE CATALOG

Deck building • Framing • Structural  
Cabinetry • Finishing • Specialty

# GRK<sup>TM</sup>

## FASTENERS

ÜberGrade



*Drive with Speed, Quality  
and Confidence*



# What Makes Us ÜberGrade?



**RECESSED  
STAR DRIVE**

*Drive with Speed, Quality and Confidence*

Zero Stripping, with (6) points of contact

**CEE THREAD™**

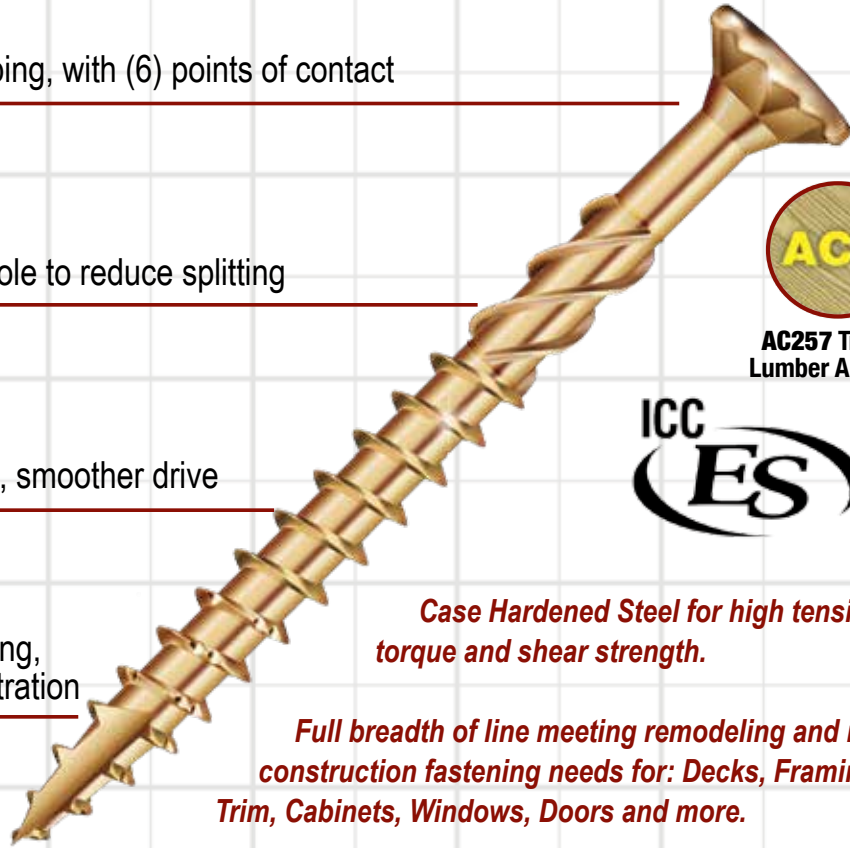
Enlarges hole to reduce splitting

**W-CUT™**

Low torque, smoother drive

**ZIP-TIP™**

No pre-drilling,  
faster penetration



**AC257 Treated  
Lumber Approved**



*Case Hardened Steel for high tensile,  
torque and shear strength.*

*Full breadth of line meeting remodeling and new  
construction fastening needs for: Decks, Framing,  
Trim, Cabinets, Windows, Doors and more.*

**BUILDING CODE APPROVED-** for structural use in treated lumber. GRK screws have been evaluated for structural and AC257 corrosion resistance to be in compliance with IBC/IRC specifications. That's why all our fasteners come with a limited lifetime warranty, so you can rest assured your installations will last the life of your project.

**FOR THE MOST CORROSION RESISTANCE-** GRK recommends the use of *PHEINOX™* Stainless Steel screws, especially in tropical wood, cedar, below ground grade treated lumber, pool / hot tub / sauna and applications within 15 miles of coastline. Climatek® coating is approved for use in various types of preservative treated wood. Designed for interior/exterior use, the golden finish nicely matches most wood finishes.

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Always build your project according to current ICC (International Code Council) specifications. GRK's Climatek™ coating meets or exceeds standards, including AC257, for use in various type of preservative treated wood. Please view ICC Report #ESR-2442, ESR-3201 and ESR-3251 for more details. Visit <http://www.grkfasteners.com/index.php/en/techdata/code-approvals>

No pre-drilling required for most GRK products, unless required or specified by building material. Always place deck boards with outer edge of growth rings facing up (bark side up). Do not use deck cleaners which contain bleach with coated metals. Consult building material supplier's/manufacturer's recommendations for exact instructions. Decking screws should be countersunk 1/8".

## SECTION 1



**R4™ Multi-Purpose Framing Screws:** Frame with ease and confidence. Multi-use screw for wood, particle board, sheet metal, cement fiber board, laminate and wood decking and melamine. They are self tapping eliminating pre-drilling featuring a countersinking head with cutting teeth, W-Cut™ for reducing torque, CEE Thread™ for no splitting and our Climatek™ AC257 code approved coating. For deck boards consisting of pressure treated lumber, cedar & redwood use #9 or #10 gauge screws. For Southern Yellow Pine use #10. For use in all applications including pressure treated lumber. [Some sizes come in PHEINOX™ stainless steel.](#) They are ESR code approved under ICC Report ESR-3201.

## SECTION 2



**RSS™ Rugged Structural Screws:** Speedy lag bolt alternative with Immense drawing power. Ideal for use anywhere you would use a traditional lag screw and more, but with no pre-drilling required. For use in all applications including pressure treated lumber. They are self tapping eliminating pre-drilling featuring a washer head with cutting teeth, W-Cut™ for reducing torque, CEE Thread™ for no splitting and our Climatek™ AC257 code approved coating. They are ESR code approved under ICC Report ESR-2442. [Some sizes come in PHEINOX™ stainless steel.](#)

**RSS™ JTS:** Joist & Truss Fastener: Used for joists and trusses..

**RSS™ LTF:** Timber Frame Fastener: Designed specifically for the Log Home & Timber frame market.

## SECTION 3



**FIN/Trim™ Trim Head Screws:** Smallest Head on the market for a clean finish. Perfect for all interior and exterior finishing applications including deck rails, exterior wood trim, stairs, banisters, window and door trim, base boards, crown moulding and joining cabinets. For use in all applications including pressure treated lumber.

They are self-tapping eliminating pre-drilling featuring the W-Cut™ threads for reduced torque, and our Climatek™ AC257 code approved coating. They are ESR code approved under ICC Report ESR-3201.

[Some sizes come in PHEINOX™ stainless steel.](#)

## SECTION 4



**RT Composite™ Trim Head Screws:** Reverse thread design prevent mushrooming for a clean finish. Engineered for use in exterior applications including classic composite trim and decking, cPVC trim and moulding. For use in all applications including pressure treated lumber.

RT™ Composite Trim screws are self-tapping eliminating pre-drilling featuring the W-Cut™ threads for reduced torque, and our Climatek™ AC257 code approved coating. They are ESR code approved under ICC Report ESR-3201.

[Some sizes come in PHEINOX™ stainless steel.](#)

## SECTION 5



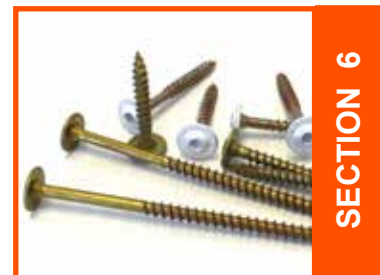
**Kameleon™ Composite Deck Screws:** Heads blend in with decking with no mushrooming effect. Use in plastic or composite decking. They are available in; Grey, Tan, Brown and Redwood.

The Kameleon screws are self tapping featuring fiber trapping rings, a countersinking head with cutting teeth, CEE Thread™, W-Cut™ threads for reduced torque and our Climatek™ AC257 code approved coating. They are ESR code approved under ICC Report ESR-3201.

**Low Profile Cabinet™ Screws:** Built in washer head presses in flush against any material. Used for cabinet and vinyl siding installation. These unique screws are thin enough to prevent most material splitting, while providing sufficient strength to guarantee a secure installation.

**White Low Profile Cabinet™ Screws:** White Powder Coated heads won't chip and blend in perfectly with white cabinetry. No need for sticker covers. For interior use only.

One size comes in *PHEINOX™* stainless steel.



SECTION 6

**PHEINOX™ Stainless Steel Screws:** For Strongest corrosion resistance. Recommended for use in tropical wood, around pools, hot tubs, sauna and sea-side type applications. Available in 305 grade stainless steel.

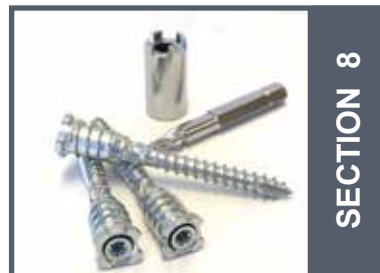
The following GRK Screws are available in *PHEINOX™* Stainless Steel: R4™ Multi-Purpose Framing, RSS™ Rugged Structural Screws, Fin / Trim™ and RT Composite™ Trim Head Screws and Low Profile Cabinet™ Screws.



SECTION 7

**Top Star™ Shim Screws:** For plumb installation of wooden door and window frames. No more shims! Other uses include cabinets, insulation, paneling and built-in-wall units.

The two-piece "unique screw within a screw" design reduces labor when installing wooden doors or windows. A unique 2 piece crown / bit allows for quick and easy driving.



SECTION 8

**VWS™ Vinyl Window Screws:** Install replacement vinyl windows without the use of shims! Allows for quick, easy and precise leveling capabilities.

The self-tapping screw features a patented washer head design with a unique edge under the screw head designed to capture the vinyl extrusion during penetration. The secondary shoulder allows for adjustments and fine tuning of framework until the window is plumb.



SECTION 9

**Caliburn™ Screws:** Heavy duty concrete and masonry fastener. For attaching a variety of materials and fixtures to concrete. Easy driving high carbon steel allows the screws to be reinserted as they create threads while being driven into the concrete. Proper pre-drilling with correct drill bit required. Caliburn™ screws are Climatek™ AC257 code approved coating. The Caliburn™ XL is ESR code approved under ICC Report ESR-3251.

**Caliburn Screw:** *Tapered concrete screw for securing wood.*

**Caliburn™ PH Screw:** *Pan head concrete screw for a more aesthetic look.*

**Caliburn™ XL Screws:** *Washer head style concrete screw for strong connections*



SECTION 10

**MSS™ Metal Siding Screws:** Integrated rubber washer with powder coated metal finish providing exceptional corrosion resistance and a tight secure installation. Ideal for metal to wood applications such as steel siding or roofing.

They are self-tapping eliminating pre-drilling featuring the W-Cut™ threads for reduced torque.

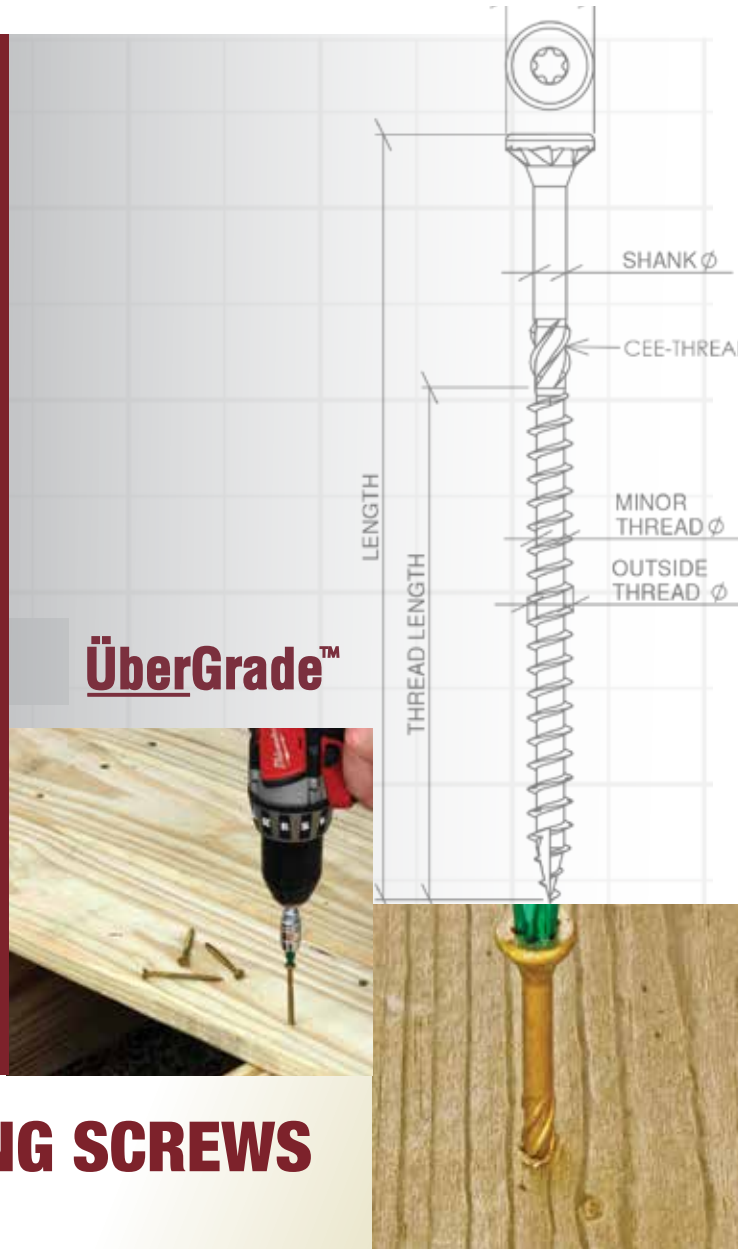


SECTION 11

GRK's R4™ self-countersinking screw has a patented underhead with saw-blade like cutting teeth and six self-contained cutting pockets. Together they act similar to a circular saw-blade, transporting the drill dust away from the edge of the screw hole while cutting a perfectly clean hole into even the most brittle materials without cracking any surface treatment.

This design enhances the R4™'s versatility by allowing the fastener to countersink into even the hardest woods. The head of the screw closes the hole off with precision, leaving no damaged fibers around the head.

R4™ screws 2" and longer have a four threaded CEE Thread. This enlarges the screw hole for the non-threaded portion of the fastener, allowing the wood to settle easily. It increases the screw's drawing strength and reduces the friction on the screw shank that lowers the driving torque.



**ÜberGrade™**

## R4™ MULTI-PURPOSE FRAMING SCREWS






Frame with Ease and Confidence



**ACQ**  
AC257 Treated  
Lumber Approved

- **Recessed Star Drive:** Zero Stripping, with 6 points of contact
- **CEE Thread:** Enlarges hole to reduce splitting
- **W-Cut™:** Low torque, smoother drive
- **Zip-Tip™:** No pre-drilling, faster penetration
- **Cutting Pockets:** provide a clean hole, reduces splitting, and bore with precision.
- **ESR-3201 Approved** for structural application.
- **Case Hardened Steel:** for high tensile, torque and shear strength.
- **Climatek™ Coating is AC257** code approved for use in treated lumber.
- For interior / exterior use in; wood, plastic, cement fiber board, particle board, sheet metal, wood decking and melamine.
- Also available in **PHEINOX™** 305 grade Stainless Steel.



	U.S. (Std.)Size (Dia.x Length)	Metric Size (Dia.x Length)	Bulk Part No.	Bulk Box Qty.	Pro-Pak Part No.	Pro-Pak Pail Qty.	Handy-Pak Part No.	Handy-Pak Ctn. Size/Qty.
 T-15	#6 x 1-1/4"	3.5 x 30	<b>00051</b>	13,000	<b>01051</b>	1,590		
	#6 x 1-1/2"	3.5 x 40	<b>00055</b>	8,000	<b>01055</b>	1,325		
	#6 x 2"	3.5 x 50	<b>00059</b>	5,400				
 T-15	#8 x 1"						<b>02067*</b>	S/100
	#8 x 1-1/4"	4.0 x 30	<b>00069</b>	10,000	<b>01069</b>	1,300	<b>02069</b>	S/100
	#8 x 1-1/2"	4.0 x 40	<b>00073</b>	6,500	<b>01073</b>	1,000	<b>02073</b>	S/100
	#8 x 1-3/4"	4.0 x 45	<b>00075</b>	6,000	<b>01075</b>	925	<b>02075</b>	S/100
	#8 x 2"	4.0 x 50	<b>00077</b>	4,500	<b>01077</b>	850	<b>02077</b>	S/100
	#8 x 2-1/2"	4.0 x 63	<b>00079</b>	3,500	<b>01079</b>	650	<b>02079</b>	S/100
	#8 x 2-3/4"	4.0 x 70			<b>01081</b>	615		
 T-25	#9 x 1-1/4"	4.5 x 30	<b>00091</b>	8,000	<b>01091</b>	1,000	<b>02091</b>	S/100
	#9 x 1-1/2"	4.5 x 40	<b>00095</b>	5,200	<b>01095</b>	820	<b>02095</b>	S/100
	#9 x 1-3/4"	4.5 x 45	<b>00097</b>	4,500	<b>01097</b>	750	<b>02097</b>	S/100
	#9 x 2"	4.5 x 50	<b>00099</b>	3,700	<b>01099</b>	690	<b>02099</b>	M/100
	#9 x 2-1/2"	4.5 x 63	<b>00101</b>	2,900	<b>01101</b>	575	<b>02101</b>	M/100
	#9 x 2-3/4"	4.5 x 70	<b>00103</b>	2,000	<b>01103</b>	480	<b>02103</b>	M/100
	#9 x 3-1/8"	4.5 x 80	<b>00105</b>	1,900	<b>01105</b>	425	<b>02105</b>	M/100
 T-25	#10 x 1-1/2"	5.0 x 40	<b>00127</b>	4,700				
	#10 x 2"	5.0 x 50	<b>00131</b>	3,200				
	#10 x 2-1/2"	5.0 x 63	<b>00133</b>	2,500	<b>01133</b>	470	<b>02133</b>	M/100
	#10 x 2-3/4"	5.0 x 70	<b>00135</b>	2,000	<b>01135</b>	395	<b>02135</b>	M/100
	#10 x 3-1/8"	5.0 x 80	<b>00137</b>	1,500	<b>01137</b>	350	<b>02137</b>	M/100
	#10 x 3-1/2"	5.0 x 90	<b>00139</b>	1,200	<b>01139</b>	300	<b>02139</b>	M/50
	#10 x 4"	5.0 x 100	<b>00141</b>	1,000	<b>01141</b>	270	<b>02141</b>	M/50
	#10 x 4-3/4"	5.0 x 120	<b>00143</b>	800	<b>01143</b>	230	<b>02143</b>	M/50
 T-25	#12/14 x 4"	6.0 x 100	<b>00165</b>	800				
	#12/14 x 4-3/4"	6.0 x 120	<b>00169</b>	700			<b>02169</b>	M/50
	#12/14 x 5-5/8"	6.0 x 140	<b>00173</b>	600			<b>02173</b>	M/50
	#12/14 x 6-3/8"	6.0 x 160	<b>00177</b>	1,000			<b>02177</b>	9/50
	#12/14 x 7-1/4"	6.0 x 180	<b>00179</b>	1,000			<b>02179</b>	9/50
	#12/14 x 8"	6.0 x 200	<b>00181</b>	500			<b>02181</b>	9/50
	#12/14 x 10"	6.0 x 250					<b>02187</b>	12/50
	#12/14 x 12"	6.0 x 300					<b>02193</b>	12/50



Some sizes available in **PHEINOX™** hardened Stainless Steel; refer to Section 7. 2" bit included in Pro-Paks. 1" bit w/Handy-Paks.  
 \*Does not come with the **Zip-Tip™** feature. **NOTE:** Pro-Paks need to be ordered in multiples of two.

GRK's RSS™ screw is made of specially hardened steel to provide you with high tensile, torque and shear strength. The sharp threads and points bite instantly into the material (including hardwood), reducing the splitting effect due to smaller shanks.

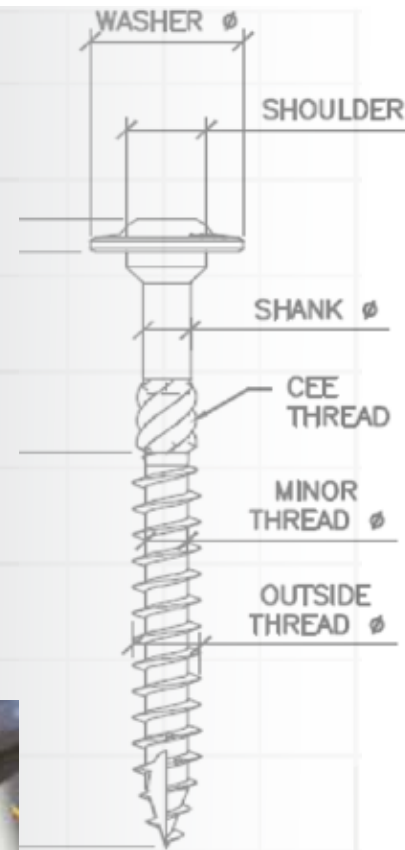
RSS™ screws that are 3 1/8" and longer have CEE Threads which enlarge the screw hole for the non-threaded portion of the fastener, allowing the wood to settle easily and increases the screw's drawing strength. The CEE Thread also reduces the friction on the screw shank which can result in lowering the driving torque and the likelihood of splitting the wood. This is why the RSS™ screw is an efficient lag screw alternative.

Our round head with built-in shield (washer type head) has no sharp edges like conventional lag screws. The added shoulder (nominal diameter) underneath the washer has the ability to center the RSS™ screw in pre-drilled hardware like hinges and connector plates.

RSS™ JTS - Used for joists and trusses

RSS™ LTF - Designed for log home and timber frame

**ÜberGrade™**



## RSS™ RUGGED STRUCTURAL SCREWS

Speedy Lag Bolt Alternative with Immense Drawing Power



AC257 Treated  
Lumber Approved



- **Recessed Star Drive:** Zero Stripping, with 6 points of contact
- **CEE Thread:** Enlarges hole to reduce splitting
- **W-Cut™:** Low torque, smoother drive
- **Zip-Tip™:** No pre-drilling, faster penetration
- **Washer Head:** for immense holding power
- **Cutting Pockets:** provide a clean hole and reduces splitting, and bore with precision.
- **ESR-2442 Approved** for structural application.
- **Case Hardened Steel:** for high tensile, torque and shear strength.
- **Climatek™ Coating is AC257** code approved for use in treated lumber.
- For interior / exterior use in; carrying beams, ledger boards, stair rails, deck posts, playground equipment and other professional applications.
- Also available in **PHEINOX™** 305 grade Stainless Steel.





T-25

U.S. (Std.) Size (Dia.x Length)	Metric Size (Dia.x Length)	Bulk Part No.	Bulk Box Qty.	Pro-Pak Part No.	Pro-Pak Pail Qty.	Handy-Pak Part No.	Handy-Pak Ctn. Size/Qty.
#10 x 1-1/2"	5.0 x 40	<b>10127*</b>	2,300			<b>12127</b>	S/50
#10 x 2"	5.0 x 50	<b>10131*</b>	1,600			<b>12131</b>	S/50
#10 x 2-1/2"	5.0 x 63	<b>10133</b>	1,000			<b>12133</b>	M/50
#10 x 2-3/4"	5.0 x 70	<b>10135</b>	1,000			<b>12135</b>	M/50
#10 x 3-1/8"	5.0 x 80	<b>10137</b>	800	<b>11137</b>	236	<b>12137</b>	M/50



T-25

1/4" x 1-1/2"	6.0 x 40	<b>10151*</b>	1,000			<b>12151</b>	M/50
1/4" x 2"	6.0 x 50	<b>10155*</b>	800			<b>12155</b>	M/50
1/4" x 2-1/2"	6.0 x 63	<b>10157</b>	700			<b>12157</b>	M/50
1/4" x 3-1/8"	6.0 x 80	<b>10161</b>	500			<b>12161</b>	M/50
1/4" x 3-1/2"	6.0 x 90	<b>10163</b>	400			<b>12163</b>	M/50



T-30

5/16" x 2-1/2"	7.0 x 63	<b>10217</b>	600			<b>12217</b>	9/100
5/16" x 2-3/4"	7.0 x 70	<b>10219</b>	500			<b>12219</b>	12/100
5/16" x 3-1/8"	7.0 x 80	<b>10221</b>	500			<b>12221</b>	12/100
5/16" x 3-1/2"	7.0 x 90	<b>10223</b>	500			<b>12223</b>	12/100
5/16" x 4"	7.0 x 100	<b>10225</b>	400			<b>12225</b>	12/100
5/16" x 5-1/8"	7.0 x 130	<b>10231</b>	300			<b>12231</b>	9/50
5/16" x 6"	7.0 x 150	<b>10235</b>	300			<b>12235</b>	9/50



T-40

3/8" x 3-1/8"	8.0 x 80	<b>10273</b>	400			<b>12273</b>	9/50
3/8" x 4"	8.0 x 100	<b>10275</b>	400			<b>12275</b>	9/50
3/8" x 5-1/8"	8.0 x 130	<b>10278</b>	300			<b>12278</b>	12/50
3/8" x 6"	8.0 x 150	<b>10281</b>	300			<b>12281</b>	12/50
3/8" x 7-1/4"	8.0 x 180	<b>10285</b>	200			<b>12285</b>	12/50
3/8" x 8"	8.0 x 200	<b>10287</b>	300			<b>12287</b>	12/50
3/8" x 10"	8.0 x 250	<b>10293</b>	300			<b>12293</b>	12/50
3/8" x 12"	8.0 x 300	<b>10299</b>	300			<b>12299</b>	12/50
3/8" x 14-1/8"	8.0 x 360	<b>10307</b>	200			<b>12307</b>	16/50
3/8" x 16"	8.0 x 400	<b>10311</b>	100			<b>12311</b>	16/50

### RSS™ JTS - JOIST AND TRUSS SCREW



T-25

1/4" x 3-3/8"	6.3 x 85					<b>93727</b>	M/50
1/4" x 5"	6.3 x 127					<b>93735</b>	9/50
1/4" x 6-3/4"	6.3 x 171	<b>91743</b>	300			<b>93743</b>	9/50

### RSS™ LTF - TIMBER FRAME SCREW



T-40

3/8" x 8"	8.0 x 200					<b>93287</b>	12/50
3/8" x 10"	8.0 x 250					<b>93293</b>	12/50
3/8" x 12"	8.0 x 300					<b>93299</b>	12/50

### RSS™ BLISTER-PAK

U.S. (std.)	Metric Size	Pt. No.	Qty.
5/16" x 3-1/8"	7.0 x 80	<b>13221</b>	15
5/16" x 4"	7.0 x 100	<b>13225</b>	12
5/16" x 5-1/8"	7.0 x 130	<b>13231</b>	10
5/16" x 6"	7.0 x 150	<b>13235</b>	8

### RSS™ MINI HANDY-PAK

U.S. (std.)	Metric Size	Pt. No.	Qty.
5/16" x 2-1/2"	7.0 x 63	<b>14217</b>	M/25
5/16" x 3-1/8"	7.0 x 80	<b>14221</b>	M/25
5/16" x 4"	7.0 x 100	<b>14225</b>	M/25
5/16" x 5-1/8"	7.0 x 130	<b>14231</b>	M/20
5/16" x 6"	7.0 x 150	<b>14235</b>	M/20

### RSS™ INDIVIDUALLY TAGGED

U.S. (std.)	Metric Size	Pt. No.	Qty./Ctn.
5/16" x 3-1/8"	7.0 x 80	<b>96001</b>	1/50
5/16" x 4"	7.0 x 100	<b>96005</b>	1/50
5/16" x 5-1/8"	7.0 x 130	<b>96010</b>	1/50
5/16" x 6"	7.0 x 150	<b>96015</b>	1/40
3/8" x 8"	8.0 x 200	<b>96020</b>	1/25
3/16" x 10"	7.0 x 250	<b>96025</b>	1/25
3/8" x 12"	8.0 x 300	<b>96030</b>	1/20

Some sizes available in **PHEINOX™** hardened Stainless Steel; refer to Section 7.

**NOTE:** Pro-Paks need to be ordered in multiples of two. \*Does not come with the Zip-Tip™ feature.

†Does not have the added CEE-THREAD™ feature. 2" bit included in Pro-Paks. 1" bit with Handy-Paks.

GRK's Trim™ Head screws are an excellent choice for most fine carpentry applications, as well as window extension jambs, joining cabinets and more. Our Trim™ Head screws have the smallest screw head available; with screw lengths from 1-1/4" (30 mm) to 5" (125 mm).

Most material splitting is prevented because of the Trim™ Head screw's exceptionally small head and the W-Cut thread design.

Fin/Trim™ screws are also available in white Climatek™ coated finish to blend in with white wooden trim boards.

**ÜberGrade™**






## FIN/TRIM™ FINISHING TRIM HEAD SCREWS

Smallest Head on the market for a Clean Finish



- **Recessed Star Drive:** Zero Stripping, with 6 points of contact.
- **Trim Head:** for a clean finished look.
- **W-Cut™:** Low torque, smoother drive.
- **Zip-Tip™:** No pre-drilling, faster penetration.
- **ESR-3201 Approved** for structural application.
- **Case Hardened Steel:** for high tensile, torque and shear strength.
- **Climatek™ Coating is AC208** code approved for use in treated lumber.
- For interior / exterior use.
- Available in **Climatek™** or white Climatek™ coated finish.
- Also available in **PHEINOX™** 305 grade Stainless Steel.

	U.S. (Std.)Size (Dia.x Length)	Metric Size (Dia.x Length)	Bulk Part No.	Bulk Box Qty.	Pro-Pak Part No.	Pro-Pak Pail Qty.	Handy-Pak Part No.	Handy-Pak Ctn. Size/Qty.
 T-10	#8 x 1-1/4"	4.0 x 30			<b>16720</b>	995	<b>17720</b>	S/100
	#8 x 1-1/2"	4.0 x 40	<b>15724</b>	6,500	<b>16724</b>	915	<b>17724</b>	S/100
	#8 x 2"	4.0 x 50	<b>15728</b>	4,500	<b>16728</b>	725	<b>17728</b>	S/100
	#8 x 2-1/2"	4.0 x 63	<b>15730</b>	3,500	<b>16730</b>	605	<b>17730</b>	S/100
	#8 x 2-3/4"	4.0 x 70			<b>16732</b>	544	<b>17732</b>	S/100
	#8 x 3-1/8"	4.0 x 80	<b>15734</b>	2,500	<b>16734</b>	514	<b>17734</b>	M/100
 T-15	#9 x 3-1/8"	4.5 x 80					<b>17756</b>	M/100
	#9 x 4"	4.5 x 100	<b>15760</b>	1,000			<b>17760</b>	M/50
	#9 x 5"	4.5 x 125	<b>15766</b>	800			<b>17766</b>	M/50
<b>WHITE FIN / TRIM™</b>								
 T-10	#8 x 2"	4.0 x 50			<b>16828</b>	605	<b>17828</b>	S/100
	#8 x 2-1/2"	4.0 x 63			<b>16830</b>	505	<b>17830</b>	S/100

**Excellent for all of  
your trimwork and fine  
carpentry finishing.**



Some sizes available in **PHEINOX™** hardened Stainless Steel; refer to Section 7

**NOTE:** Pro-Paks need to be ordered in multiples of two. 2" bit included in Pro-Paks. 1" bit with Handy-Paks.

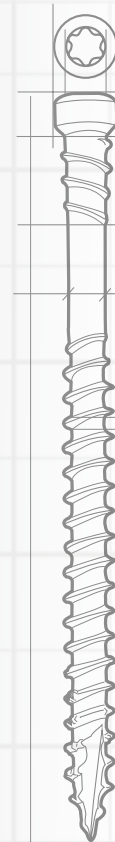


GRK has modified its innovative FIN/Trim™ Head screw to include reverse threading under the head of the fastener. This technology makes the RT Composite™ Trim Screw ideal for use in composite and cellular PVC trim.

Based on extensive tests, GRK has found that the reverse thread helps the screw head disappear beneath the surface of the classic wood composite material, reducing or eliminating the dimple that sometimes appears when using the FIN/Trim™ screw.

The reverse thread feature is available in RT Composite™ screws from 2" to 3-1/8" in length in both regular Climatek™ coating and in white Climatek™ coated finish to blend in with popular white exterior composite and cellular PVC trim.

**ÜberGrade™**



## RT COMPOSITE™ EXTERIOR TRIM SCREWS




Reverse Thread Design Prevents Mushrooming

- **Recessed Star Drive:** Zero Stripping, with 6 points of contact.
- **Reverse Threads** eliminate mushrooming.
- **Trim Head:** for a clean finished look.
- **W-Cut™:** Low torque, smoother drive.
- **Zip-Tip™:** No pre-drilling, faster penetration.
- **ESR-3201 Approved** for structural application.
- **Case Hardened Steel:** for high tensile, torque and shear strength.
- **Climatek™ Coating is AC257** code approved for use in treated lumber.
- For interior / exterior use in; exterior PVC trim (Azek,™ Klear,™ Koma™), no pre-drilling is necessary. Climatek™ coated screws work well with CAMO system.
- Available in **Climatek™** or white Climatek™ coated finish.
- Also available in **PHEINOX™** 305 grade Stainless Steel.



**AC257 Treated  
Lumber Approved**



	U.S. (Std.)Size (Dia.x Length)	Metric Size (Dia.x Length)	Bulk Part No.	Bulk Box Qty.	Pro-Pak Part No.	Pro-Pak Pail Qty.	Handy-Pak Part No.	Handy-Pak Ctn. Size/Qty.
 T-10	#8 x 2"	4.0 x 50	<b>15077</b>	4,500	<b>16077</b>	725	<b>17077</b>	S/100
	#8 x 2-1/2"	4.0 x 63	<b>15079</b>	3,500	<b>16079</b>	605	<b>17079</b>	S/100
	#8 x 2-3/4"	4.0 x 70	<b>15081</b>	3,000			<b>17081</b>	S/100
	#8 x 3-1/8"	4.0 x 80	<b>15083</b>	2,500	<b>16083</b>	514	<b>17083</b>	M/100
 T-15	#9 x 2-1/2"	4.5 x 63	<b>15101</b>	2,900	<b>16101</b>	408	<b>17101</b>	M/100
	#9 x 3-1/8"	4.5 x 80	<b>15105</b>	1,900	<b>16105</b>	348	<b>17105</b>	M/100
<b>WHITE RT COMPOSITE™</b>								
 T-10	#8 x 2"	4.0 x 50	<b>15630</b>	3,500	<b>16628</b>	605	<b>17628</b>	S/100
	#8 x 2-1/2"	4.0 x 63			<b>16630</b>	505	<b>17630</b>	S/100
	#8 x 2-3/4"	4.0 x 70			<b>16632</b>	450	<b>17632</b>	S/100
	#8 x 3-1/8"	4.0 x 80					<b>17634</b>	M/100

*Supreme Drawing Power  
is perfect for trimwork and  
deck construction.*



Some sizes available in **PHEINOX™** hardened Stainless Steel; refer to Section 7  
**NOTE:** Pro-Paks need to be ordered in multiples of two. 2" bit included in Pro-Paks. 1" bit with Handy-Paks.

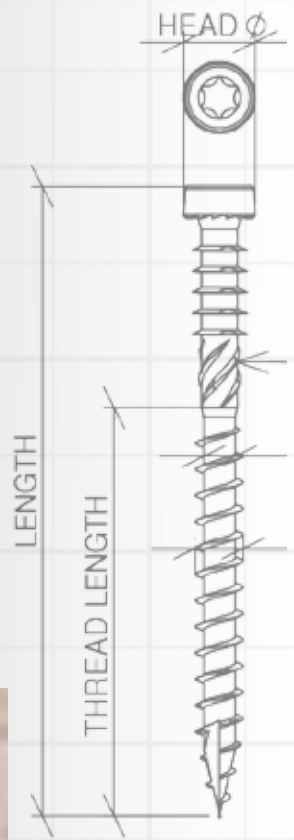
GRK's Kameleon™ screws are an excellent choice for composite and PVC decking applications. The underhead has saw-blade like cutting teeth that cut a perfectly clean hole into the decking.

The Kameleon™ also features five to seven rings that have three indented fiber traps on each ring designed to trap fibers and eliminate the mushroom effect.

The CEE Thread feature enlarges the screw hole allowing the composite decking to settle easily, increases the screw's drawing strength, and reduces the friction on the screw shank, which can result in lowering the overall driving torque.

The Kameleon™ is also available in a range of popular colors: Grey, Tan, Brown and Redwood. And, in a variety of sizes from 2-1/2" to 2-3/4".

**ÜberGrade™**



## KAMELEON™ COMPOSITE DECK SCREWS

Heads Blend in with Decking. No Mushrooming Effect




- **Recessed Star Drive:** Zero Stripping, with 6 points of contact
- **CEE Thread:** Enlarges hole to reduce splitting
- **W-Cut™:** Low torque, smoother drive
- **Zip-Tip™:** No pre-drilling, faster penetration
- **Fiber Trapping Rings:** are designed to prevent mushrooming and dimpling.
- **Cutting Pockets:** provide a clean hole and reduces splitting, and bore with precision.
- **ESR-3201 Approved** for structural application.
- **Case Hardened Steel:** for high tensile, torque and shear strength.
- **Climatek™ Coating is AC257** code approved for use in treated lumber.
- For interior / exterior use in; both composite and PVC decking.



**AC257 Treated  
Lumber Approved**



		U.S. (Std.) Size (Dia.x Length)	Metric Size (Dia.x Length)	Bulk Part No.	Bulk Box Qty.	Pro-Pak Part No.	Pro-Pak Pail Qty.	Handy-Pak Part No.	Handy-Pak Ctn. Size/Qty.
Grey		#9 x 2-1/2"	4.5 x 63	<b>65151</b>	2,900	<b>66151</b>	510	<b>67151</b>	M/100
Tan		#9 x 2-1/2"	4.5 x 63	<b>65155</b>	2,900	<b>66155</b>	510	<b>67155</b>	M/100
Brown		#9 x 2-1/2"	4.5 x 63	<b>65158</b>	2,900	<b>66158</b>	510	<b>67158</b>	M/100
Redwood		#9 x 2-1/2"	4.5 x 63	<b>65159</b>	2,900	<b>66159</b>	510	<b>67159</b>	M/100
Grey		#9 x 2-3/4"	4.5 x 70	<b>65171</b>	2,000	<b>66171</b>	420		
Tan		#9 x 2-3/4"	4.5 x 70	<b>65175</b>	2,000	<b>66175</b>	420		
Brown		#9 x 2-3/4"	4.5 x 70	<b>65178</b>	2,000	<b>66178</b>	420		
Redwood		#9 x 2-3/4"	4.5 x 70	<b>65179</b>	2,000	<b>66179</b>	420		

**Kameleon™ Composite Deck Screws are available in 2-1/2" to 2-3/4" 5lb. Pro-Paks. Enough to cover 150 square feet. Pro-Pak screw colors are available in Grey, Tan, Brown and Redwood.**



**NOTE:** Pro-Paks need to be ordered in multiples of two. 2" bit included in Pro-Paks. 1" bit with Handy-Paks.

GRK's Cabinet™ screws are designed specifically for use in cabinet construction and installation. Cabinet™ screws are manufactured in a #8 gauge (4 mm) diameter for universal size convenience.

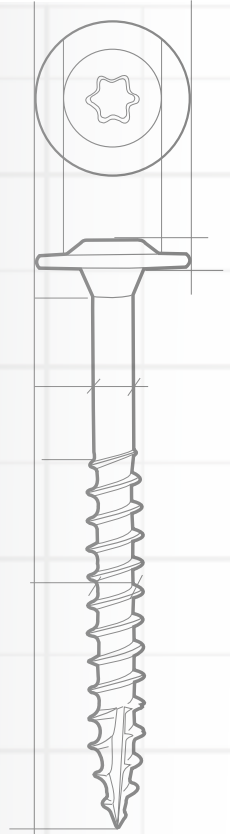
These screws are thin enough to prevent most material splitting, while providing sufficient strength to guarantee a secure installation. The washer head design presses flush against any material surface.

Builders have discovered that short Cabinet™ screws can sometimes be used in vinyl siding installation, which makes this fastener ideal for both interior and exterior applications.

The Cabinet screw can also be used for light duty framing applications where a smaller diameter shank is necessary, yet a need exists for drawing power delivered by the washer head.

White Cabinet Screws match perfectly with white cabinet frames without the need of stickercovers. Specialized Powder Coated heads will not chip while being driven in, allowing for a clean finish. They are ideally suited for a wide variety of interior applications including, closets & garage organizational systems.

**ÜberGrade™**



## LOW PROFILE CABINET™ SCREWS

**Built-in Washer Head Presses Flush against any Material**



- **Recessed Star Drive:** Zero Stripping, with 6 points of contact.
- **Washer Head:** Creates a flush, clean hold for a strong and secure installation.
- **W-Cut™:** Low torque, smoother drive.
- **Zip-Tip™:** No pre-drilling, faster penetration.
- **Case Hardened Steel:** for high tensile, torque and shear strength.
- **Climatek™ Coating** is AC257 code approved for use in treated lumber.
- For interior / exterior use.
- Also available in **PHEINOX™** 305 grade Stainless Steel.
- **White Cabinet Screw:** For interior use only.

U.S. (Std.)Size (Dia.x Length)	Metric Size (Dia.x Length)	Bulk Part No.	Bulk Box Qty.	Pro-Pak Part No.	Pro-Pak Pail Qty.	Handy-Pak Part No.	Handy-Pak Ctn. Size/Qty.
#8 x 1"	4.0 x 25	<b>12067</b>					
#8 x 1"	4.0 x 25	<b>11067</b>	3,000				
#8 x 1-1/4"	4.0 x 30	<b>10069</b>	4,000	<b>11069</b>	1085	<b>12069</b>	S/100
#8 x 1-1/2"	4.0 x 40	<b>10073</b>	3,000	<b>11073</b>	930	<b>12073</b>	M/100
#8 x 1-3/4"	4.0 x 45	<b>10075</b>	2,000			<b>12075</b>	M/100
#8 x 2"	4.0 x 50	<b>10077</b>	2,000	<b>11077</b>	650	<b>12077</b>	M/100
#8 x 2-1/2"	4.0 x 63	<b>10079</b>	1,500	<b>11079</b>	563	<b>12079</b>	M/100
#8 x 2-3/4"	4.0 x 70					<b>12081</b>	M/100
#8 x 3-1/8"	4.0 x 80	<b>10083</b>	1,000	<b>11083</b>	400	<b>12083</b>	M/50

### WHITE LOW PROFILE™ CABINET SCREWS

#8 x 1-1/4"	4.0 x 30			<b>11064</b>	1085	<b>12064</b>	M/100
#8 x 1-1/2"	4.0 x 40			<b>11063</b>	930	<b>12063</b>	M/100
#8 x 2-1/2"	4.0 x 63			<b>11062</b>	563	<b>12062</b>	M/100
#8 x 3-1/8"	4.0 x 80			<b>11061</b>	400	<b>12061</b>	M/50

T-15

T-15

LOW PROFILE CABINET™ SCREWS



*Ideal for Cabinets...  
and so much more.  
Also excellent for a  
variety of interior or  
exterior jobs.*

Some sizes available in **PHEINOX™** hardened Stainless Steel; refer to Section 7  
**NOTE:** Pro-Paks need to be ordered in multiples of two. 2" bit included in Pro-Paks.

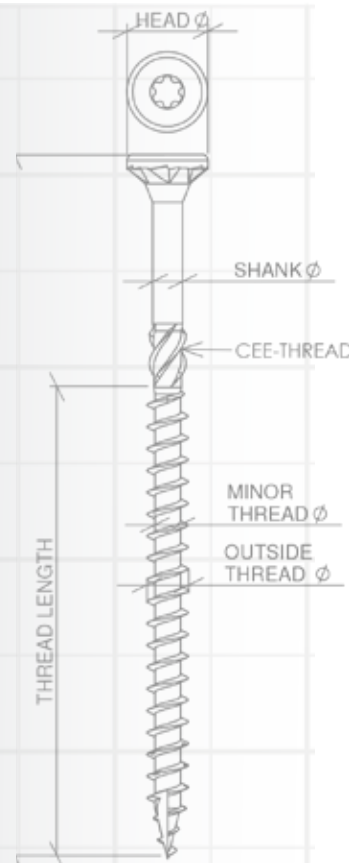


*PHEINOX™* stainless steel screws are made from only the best grade of stainless steel wire, 305. The unique characteristics of the *PHEINOX™* wire give our stainless steel screws unmatched performance, by maximizing both torque and increasing bending strength.

GRK's patented R4™, RSS™, Cabinet™, Fin/Trim™, and RT Composite™ screws are available in *PHEINOX™* stainless steel. Use *PHEINOX™* screws from GRK for projects that should last a lifetime.

GRK recommends the use of its *PHEINOX™* stainless steel fasteners in tropical wood, cedar wood, pool, hot tub, sauna and sea-side applications, as well as deck applications in areas with large daily temperature variances. The ultimate finish for superior all weather corrosion protection.

**ÜberGrade™**



## ***PHEINOX™* STAINLESS STEEL SCREWS**



**Maximum Corrosion Protection for Harsh Environments**

- **305 grade stainless steel** for a superior combination of strength and corrosion resistance.
- **ESR-2442 & 3201 Approved** for structural application.
- **Hardened Stainless Steel** finish provides extraordinary anti-corrosion protection.
- **CEE Thread™** - enlarges hole to reduce splitting. Increases drawing strength.
- **W-Cut™ Thread Design** tiny saw blades reduce torque by cutting through the material.
- **ZIP-TIP™** for easy starts and no pre-drilling.
- Available in a wide range of sizes and types.
- For use in exterior construction in coastal areas and below ground applications and use including pools, docks and boardwalks.



**AC257 Treated  
Lumber Approved**



	U.S. (Std.) Size (Dia.x Length)	Metric Size (Dia.x Length)	Bulk Part No.	Bulk Box Qty.	Pro-Pak Part No.	Pro-Pak Pail Qty.	Handy-Pak Part No.	Handy-Pak Ctn. Size/Qty.
<b>R4™ SCREWS</b>								
 T-15	#8 x 1-1/4"	4.0 x 30			<b>26073</b>	857	<b>27069</b>	S/100
	#8 x 1-1/2"	4.0 x 40					<b>27073</b>	S/100
	#8 x 1-3/4"	4.0 x 45					<b>27075</b>	S/100
 T-25	#9 x 1-1/2"	4.5 x 40	<b>25095</b>	5,000				
	#9 x 2"	4.5 x 50	<b>25099</b>	4,000	<b>26099</b>	609	<b>27099</b>	M/100
 T-25	#10 x 2-1/2"	5.0 x 63	<b>25133</b>	2,500	<b>26133</b>	425	<b>27133</b>	M/100
	#10 x 2-3/4"	5.0 x 70	<b>25135</b>	2,000	<b>26135</b>	350	<b>27135</b>	M/100
	#10 x 3-1/8"	5.0 x 80	<b>25137</b>	1,500	<b>26137</b>	305	<b>27137</b>	M/100
	#10 x 4"	5.0 x 100	<b>25141</b>	1,000	<b>26141</b>	247		
<b>RSS™ SCREWS</b>								
 T-25	1/4" x 1-1/2"	6.0 x 40	<b>30151</b>	1,000				
	1/4" x 2"	6.0 x 50	<b>30155</b>	800				
	1/4" x 2-1/2"	6.0 x 63	<b>30157</b>	700				
 T-30	5/16" x 2-1/2"	7.0 x 63	<b>30217</b>	600				
	5/16" x 3-1/8"	7.0 x 80	<b>30221</b>	500			<b>32221</b>	12/100
	5/16" x 4"	7.0 x 100	<b>30225</b>	400			<b>32225</b>	12/100
	5/16" x 5-1/8"	7.0 x 130	<b>30231</b>	300				
	5/16" x 6"	7.0 x 150	<b>30235</b>	300			<b>32235</b>	9/50
<b>RT COMPOSITE™ TRIM SCREWS</b>								
 T-10	#8 x 2"	4.0 x 50			<b>36077</b>	600	<b>37077</b>	S/100
	#8 x 2-1/2"	4.0 x 63	<b>35079</b>	3,500	<b>36079</b>	560	<b>37079</b>	S/100
	#8 x 3-1/8"	4.0 x 80			<b>36083</b>	385	<b>37083</b>	M/100
 T-15	#9 x 2-1/2"	4.5 x 63	<b>35101</b>	2,900	<b>36101</b>	365	<b>37101</b>	M/100
	#9 x 3-1/8"	4.5 x 80			<b>36105</b>	275		
 T-10	#8 x 2" White Hd.	4.0 x 50	<b>35628</b>	4,500	<b>36628</b>	540	<b>37628</b>	S/100
	#8 x 2-1/2"	4.0 x 63			<b>36630</b>	500	<b>37630</b>	S/100
<b>FIN / TRIM™ SCREWS</b>								
 T-10	#8 x 1-1/2"	4.0 x 40	<b>35724</b>	6,500	<b>36724</b>	800	<b>37724</b>	S/100
	#8 x 2"	4.0 x 50	<b>35728</b>	4,500	<b>36728</b>	600	<b>37728</b>	S/100
	#8 x 2-1/2"	4.0 x 63	<b>35730</b>	3,500	<b>36730</b>	560	<b>37730</b>	S/100
	#8 x 2-3/4"	4.0 x 70					<b>37732</b>	S/100
	#8 x 3-1/8"	4.0 x 80			<b>36734</b>	385	<b>37734</b>	M/100
 T-15	#9 x 2-1/2"	4.5 x 63			<b>36752</b>	365		
	#9 x 3-1/8"	4.5 x 80	<b>35756</b>	1,900	<b>36756</b>	275		
<b>CABINET™ SCREWS</b>								
 T-15	#8 x 1-1/4"	4.0 x 30	<b>30069</b>	4,000	<b>31069</b>	600	<b>32069</b>	S/100

2" bit included in Pro-Paks. 1" bit with Handy-Paks.

GRK's adjustable Top Star(TM) shim screw, is in fact a screw within a screw that allows you to install wooden doors or windows without the use of shims.

The quick and easy system reduces labor and allows for hassle free adjustment to ensure plumb installation.

Our product is suited to meet the needs of both professional contractors and weekend warriors making the job easier for one person.

Fine adjustments are as simple as the turn of a screw, even after years of use and settling.

**ÜberGrade™**

Door stop or cover caps will hide hole

## TOP STAR™ ADJUSTABLE SHIM SCREWS

For Plumb Installation of Wooden Doors and Windows. No More Shims!



- **Recessed Star Drive:** Zero Stripping, with 6 points of contact
- **4-point 3/8" diameter Threaded Sleeve** provides a secure hold in your wooden frame
- **Micro-Adjustments** allow for an absolutely plumb installation
- Use with GRK's **Top Star™ Crown** and **T-15 Star bit system**.
- **White Zinc Plated** finish for lasting durability.
- **For Shim Free installation** of wooden doors, windows, insulation, paneling, built-in wall units and cabinets.



U.S. (Std.) Size (Dia.x Length)	Metric Size (Dia.x Length)	Bulk Part No.	Bulk Box Qty.	Blister-Pak Part No.	Blister-Pak Qty/per pack
3/8" x 2-1/2"	6.0 x 63	<b>20157</b>	100		
3/8" x 3-1/8"	6.0 x 80	<b>20161</b>	100		

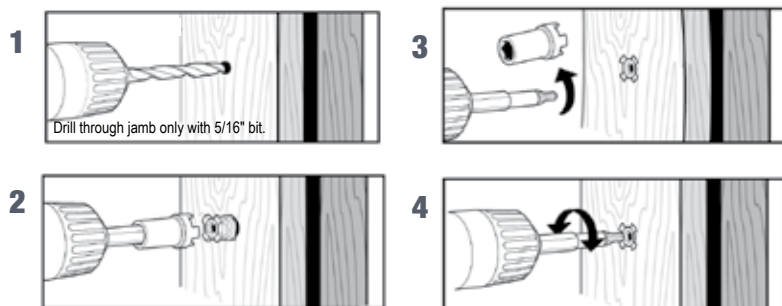
**CROWN / BIT**

Includes: (1)  
Crown / Bit  
with each

**86465****1**

**The Bit drives the Top Star™ into the material when the Crown and Bit are combined. Using the Bit without the Crown adjusts the distance.**

**The Threaded Sleeve moves independently from the Top Star™ unless locked by the Crown. When locked, the Top Star™ gets driven into the material. Unlocked, the installed Top Star™ is ready for levelling.**

**The Complete Top Star™ System Includes:****BIT****CROWN****THREADED SLEEVE**

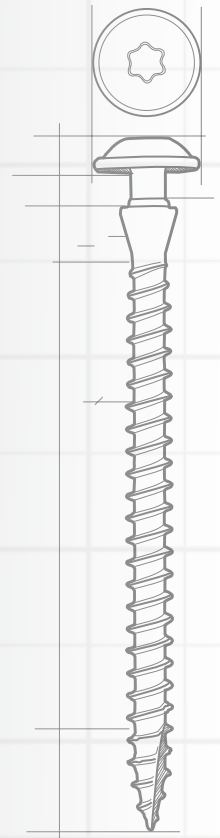
**NOTE:** Crown and Star bit system included in each bulk box. 5/16" drill bit not included.

GRK's VWS™ Vinyl Window Screws are designed to quickly adjust windows to plumb alignments without tedious measuring. The patented Vinyl Window Screw makes setting vinyl windows a breeze.

By catching the window frame between the screw head and the screw's secondary shoulder, the window position can be quickly and easily adjusted.

Our product is perfectly suited to meet the needs of both the professional and do-it-yourself installers. Simply pre-drill the first layer, insert screw, lock collar and adjust... it's just that easy.

**ÜberGrade™**



## VWS™ VINYL WINDOW SCREWS

Install Replacement Windows without the use of Shims



- **Tek Point Drill Tip** with white head for metal studs.
- **Patented Washer Head** creates a tight draw.
- **Climatek™ Coating** is AC257 code approved for use in treated lumber.
- **Innovative Edge Design** under the head to capture the vinyl strap at penetration time.
- **W-Cut™ Thread Design** tiny saw blades reduce torque by cutting through the material.
- **ZIP-TIP™** for easy starts and no pre-drilling.



**AC257 Treated  
Lumber Approved**

	U.S. (Std.) Size (Dia.x Length)	Metric Size (Dia.x Length)	Bulk Part No.	Bulk Box Qty.	Pro-Pak Part No.	Pro-Pak Pail Qty.	Handy-Pak Part No.	Handy-Pak Ctn. Size/Qty.
T-15	#8 x 2-1/2"	4.0 x 63	50079					
T-25	#10 x 3-1/8" (with Drill Tip)	5.0 x 80	50137	800	51137	225	52137	M/50

1.



2.



3.



1. Pre-drill window frame.

2. Install screw.

3. Lock collar &amp; adjust.

**NOTE:** Pro-Paks need to be ordered in multiples of two. 2" bit included in Pro-Paks. 1" with Handy-Paks.

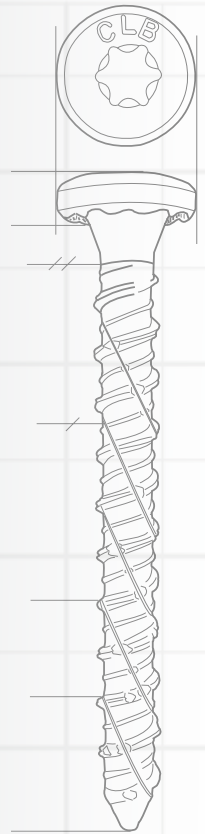


Caliburn™ Concrete screws are professionally engineered fasteners with a patented thread design for ease of driving the screw in concrete and similar applications.

Available in three different head designs for multiple applications. Caliburn™, Caliburn™ PH and Caliburn™ XL are Climatek™ coated for high corrosion resistance.

Caliburn's uncompromised draw and pull-out strength make it possible to be used in jobs which previously required an anchor. The screws aggressive thread design afford it the ability to be removed and reinserted into the same pilot hole numerous times--without the concern of the fastener breaking or the threads wearing.

**ÜberGrade™**






## CALIBURN™ CONCRETE SCREWS

### Heavy Duty Concrete and Masonry Fastener



**AC257 Treated  
Lumber Approved**

- **Recessed Star Drive:** Zero Stripping, with 6 points of contact.
- **Aggressive Heavy duty threads** lock into concrete and can be removed and reinserted without screw damage.
- **ESR-3251** approved for use in anchoring into concrete.
- **Countersinking Bugle Head** locks wood to concrete for complete installation and effective anchoring.
- **Caliburn™ PH** pan head, which is ideal for an exposed finished look including installation of electrical boxes.
- **Caliburn™ XL** washer head design for superior holding power.
- **Climatek™ Coating is AC257** code approved for use in treated lumber.
- Ideal for use in anchoring to concrete or wood to concrete applications including basement framing and sheds.

	U.S. (Std.)Size (Dia.x Length)	Metric Size (Dia.x Length)	Bulk Part No.	Bulk Box Qty.	Pro-Pak Part No.	Pro-Pak Pail Qty.	Handy-Pak Part No.	Handy-Pak Ctn. Size/Qty.
 T-30	1/4" x 1-3/4"	6.0 x 45	55159 55163	1,000 800			57153	M/50
	1/4" x 2-1/4"	6.0 x 55					57156	M/50
	1/4" x 2-3/4"	6.0 x 70					57159	M/50
	1/4" x 3-1/2"	6.0 x 90					57163	M/50
	1/4" x 5"	6.0 x 125					57171	M/50
CALIBURN™ PH								
 T-30	1/4" x 1-3/4"	6.0 x 45					57828	M/50
	1/4" x 2-1/4"	6.0 x 55					57831	M/50
CALIBURN™ XL								
 T-40	19/64" x 2-3/4"	7.5 x 70	55778 55785	400 300			57774	M/25
	19/64" x 3-1/2"	7.5 x 90					57778	M/25
	19/64" x 5"	7.5 x 125					57785	M/25



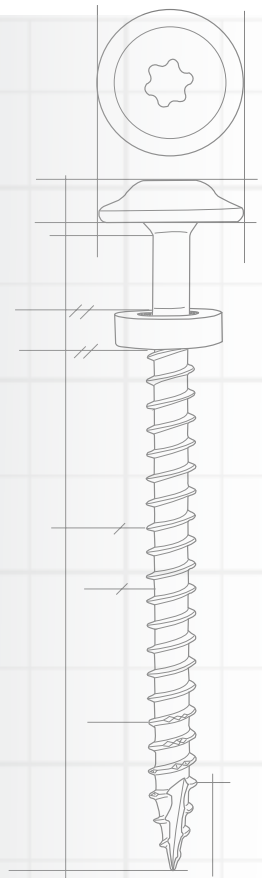
**Great for a wide variety of indoor / outdoor home renovation projects**



The MSS™ was developed and patented based on the RSS™ model. This screw has an integrated washer-head and is complemented by a rubber washer below the screw head. This feature also helps protect the washer from prolonged exposure to the sun for long lasting, secure siding installations.

No pre-drilling is needed due to the MSS™ tip design for thin sidings as well as thick studs. The MSS™ is powder coated for exceptionally high corrosion resistance.

**ÜberGrade™**



## **MSS™ METAL SIDING SCREWS**

**Integrated head design with Powder Coating Finish**

- **White Color, Low Profile Head** produces a clean, finished look which is preferred for moldings, closet organizers and metal siding.
- **Washer Head**-increases holding power.
- **Rubber Washer** seals drill hole from the elements.
- **W-Cut™ Thread Design** tiny saw blades reduce torque by cutting through the material.
- **ZIP-TIP™** for easy starts and no pre-drilling.
- For use in interior or exterior applications including metal siding, garage door trim and even closet organizers. Not for use with treated lumber.







T-25

U.S. (Std.)Size (Dia.x Length)	Metric Size (Dia.x Length)	Bulk Part No.	Bulk Box Qty.	Pro-Pak Part No.	Pro-Pak Pail Qty.	Handy-Pak Part No.	Handy-Pak Ctn. Size/Qty.
#9 x 1"	4.5 x 25	40060	3,000			44060	M/100
#9 x 1-1/2"	4.5 x 40	40090	3,000			44090	M/100
#9 x 2"	4.5 x 50	40120	2,000			44120	M/100

*Self-tapping screws with integrated washer head, for fastening metal siding to a wooden framed structures.*



1" bit included in Handy-Paks

## Star Drive Bits, Crown / Bit and Magnetic Bit Holder



Bit Size	Bit Color	Fits	Bulk Part No.	Bulk Box Qty.	Carded Part No.	Carded Qty/per pack
T-10 1"	yellow	Trim™ Head #8	86417	50	87417	2
T-10 2"	yellow		186419	25	187419	2
T-10 3"	yellow				87421	2
T-10 6"	yellow				87423	2
T-15 1"	red	R4™ Screw #6 & 8	86425	50	87425	2
T-15 2"	red	Trim™ Head #9	186427	25	187427	2
T-15 3"	red	Cabinet™ Screw			87429	2
T-15 6"	red	Vinyl Window #8			87431	2
T-20 1"	purple	Kameleon™ Screws			87433	2
T-20 2"	purple		186435	25	187435	2
T-20 6"	purple				87439	2
T-25 1"	green	R4™ #9,10 &12, Caliburn™,	86441	50	87441	2
T-25 2"	green	RSS™ #10 & 1/4"	186443	25	187443	2
T-25 3"	green	MSS™ #9	86445	25	87445	2
T-25 6"	green				87447	2
T-30 1"	black	RSS™ Structural Screw	86449	50	87449	2
T-30 2"	black	5/16" & 3/8",	186451	25	187451	2
T-30 3"	black	Caliburn™ & Caliburn PH™			87453	2
T-30 6"	black				87455	2
T-40 1"	blue	Caliburn XL™ Screws			87457	2
T-40 2"	blue	RSS™ Structural Screw 3/8"	186459	25	187459	2
<b>CROWN / BIT</b>						
		TOP STAR™			86465	1
<b>STAR DRIVE BIT KIT with Quick Change Adaptor</b>						
T-15, T-20, T-25 T-30, T-40	Assorted	All 1" & 2" Star Drive Heads			88492	4



# High Impact Merchandisers Designed to Drive Sales

Displays are free with qualifying order.

## Rolling Rack:

Ideal for secondary placement. Can be moved around retail space. Holds Pro-Paks, Handy-Paks, Blister-Paks and/or open stock in bins.



## Universal Display:

Ideal for end-cap with large selection of GRK product.



## Cardboard Display:

Ideal for secondary placement in aisle or by checkouts. Free-Standing unit holds Handy-Paks or open stock in bins.



## Blue Bins:

Great for selling fasteners by the piece on GRK displays, gondolas, or by Contractor Desk.





# TECHNICAL FASTENER DATA

## RSS™

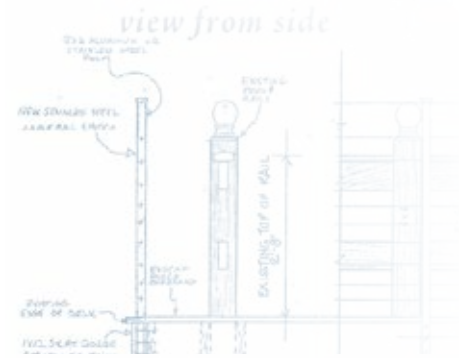


TABLE 1—RSS™ FASTENER SPECIFICATIONS

FASTENER DESIGNATION		LENGTH <sup>1</sup> (inches)	THREAD LENGTH <sup>2</sup> (inches)	MINOR THREAD DIAMETER (inch)	SHANK DIAMETER (inch)	OUTSIDE THREAD DIAMETER (inch)	NOMINAL BENDING YIELD STRENGTH <sup>3</sup> F <sub>yb</sub> (psi)	ALLOWABLE STEEL STRENGTH	
								TENSILE (lbf)	SHEAR (lbf)
RSS	<sup>1</sup> / <sub>4</sub> x 2 <sup>1</sup> / <sub>2</sub> "	2 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	0.152	0.169	0.236	170,400	1112	754
	<sup>1</sup> / <sub>4</sub> x 2 <sup>3</sup> / <sub>4</sub> "	2 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>						
	<sup>1</sup> / <sub>4</sub> x 3 <sup>1</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>8</sub>	2						
	<sup>1</sup> / <sub>4</sub> x 3 <sup>1</sup> / <sub>2</sub> "	3 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>8</sub>						
	<sup>5</sup> / <sub>16</sub> x 2 <sup>1</sup> / <sub>2</sub> "	2 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	0.167	0.195	0.276	190,900	1415	982
	<sup>5</sup> / <sub>16</sub> x 2 <sup>3</sup> / <sub>4</sub> "	2 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>						
	<sup>5</sup> / <sub>16</sub> x 3 <sup>1</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>						
	<sup>5</sup> / <sub>16</sub> x 3 <sup>1</sup> / <sub>2</sub> "	3 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>						
	<sup>5</sup> / <sub>16</sub> x 4"	3 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>						
	<sup>5</sup> / <sub>16</sub> x 5 <sup>1</sup> / <sub>8</sub> "	5	3 <sup>1</sup> / <sub>2</sub>						
	<sup>5</sup> / <sub>16</sub> x 6"	5 <sup>7</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>8</sub>						
	<sup>3</sup> / <sub>8</sub> x 3 <sup>1</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	0.191	0.219	0.313	178,000	1941	1231
	<sup>3</sup> / <sub>8</sub> x 4"	3 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>						
	<sup>3</sup> / <sub>8</sub> x 5 <sup>1</sup> / <sub>8</sub> "	5 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>						
	<sup>3</sup> / <sub>8</sub> x 6"	5 <sup>7</sup> / <sub>8</sub>	4						
	<sup>3</sup> / <sub>8</sub> x 7 <sup>1</sup> / <sub>4</sub> "	7	4 <sup>1</sup> / <sub>2</sub>						
	<sup>3</sup> / <sub>8</sub> x 8"	7 <sup>7</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>8</sub>						
	<sup>3</sup> / <sub>8</sub> x 10"	9 <sup>3</sup> / <sub>4</sub>	5						
	<sup>3</sup> / <sub>8</sub> x 12"	11 <sup>7</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>8</sub>						
	<sup>3</sup> / <sub>8</sub> x 14 <sup>1</sup> / <sub>8</sub> "	14 <sup>1</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>8</sub>						
	<sup>3</sup> / <sub>8</sub> x 16"	15 <sup>5</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>4</sub>						
LPS	<sup>1</sup> / <sub>4</sub> x 8"	7 <sup>7</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	0.152	0.171	0.240	172,600	1051	666
LTF	<sup>3</sup> / <sub>8</sub> x 8"	7 <sup>7</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>8</sub>	0.191	0.219	0.311	167,600	1714	1094
	<sup>3</sup> / <sub>8</sub> x 10"	9 <sup>7</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>8</sub>						
	<sup>3</sup> / <sub>8</sub> x 12"	11 <sup>3</sup> / <sub>4</sub>	3 <sup>7</sup> / <sub>8</sub>						
RSS PHEInox	<sup>1</sup> / <sub>4</sub> x 2 <sup>1</sup> / <sub>2</sub> "	2 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	0.152	0.169	0.236	111,400	628	546
	<sup>1</sup> / <sub>4</sub> x 3 <sup>1</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>8</sub>	2						
	<sup>5</sup> / <sub>16</sub> x 2 <sup>1</sup> / <sub>2</sub> "	2 <sup>3</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	.167	0.195	0.276	118,300	806	668
	<sup>5</sup> / <sub>16</sub> x 3 <sup>1</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>						
	<sup>5</sup> / <sub>16</sub> x 4"	3 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>						
	<sup>5</sup> / <sub>16</sub> x 5 <sup>1</sup> / <sub>8</sub> "	5 <sup>1</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>						
	<sup>5</sup> / <sub>16</sub> x 6"	5 <sup>7</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>8</sub>						
JTS	<sup>1</sup> / <sub>4</sub> x 3 <sup>3</sup> / <sub>8</sub> "	3 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	0.152	0.171	0.240	226,300	1104	769
	<sup>1</sup> / <sub>4</sub> x 5"	5	1 <sup>5</sup> / <sub>8</sub>						
	<sup>1</sup> / <sub>4</sub> x 6 <sup>3</sup> / <sub>4</sub> "	6 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>						

For SI: 1 inch = 25.4 mm; 1 psi = 6.9 kPa; 1 lbf = 4.4 N.

<sup>1</sup>The length of fasteners is measured from the underside of the head to bottom of the tip. See Figure 1.

<sup>2</sup>Length of thread includes tip. See Figure 1.

<sup>3</sup>Bending yield strength determined in accordance with ASTM F1575 using the minor thread diameter.

<sup>4</sup>See Figure 1 for additional dimensional information.



**RSS™**

TABLE 2—RSS™ REFERENCE WITHDRAWAL (W) AND PULL-THROUGH (P) DESIGN VALUES<sup>1</sup>

FASTENER DESIGNATION		THREAD LENGTH (inches)	W (lbf/in.) <sup>2</sup>		P (lbf) <sup>3</sup>		WET SERVICE FACTOR, C <sub>M</sub>
			For Specific Gravities of:		For Specific Gravities of:		
			0.42 ≤ G < 0.55	0.55 ≤ G < 0.67	0.42 ≤ G < 0.55	0.55 ≤ G < 0.67	
RSS	<sup>1</sup> / <sub>4</sub> x 2 <sup>1</sup> / <sub>2</sub> "	1 <sup>1</sup> / <sub>2</sub>	151	186	165	275	0.70
	<sup>1</sup> / <sub>4</sub> x 2 <sup>3</sup> / <sub>4</sub> "	1 <sup>3</sup> / <sub>4</sub>					
	<sup>1</sup> / <sub>4</sub> x 3 <sup>1</sup> / <sub>8</sub> "	2					
	<sup>1</sup> / <sub>4</sub> x 3 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>8</sub>	165	227	207	418	
	<sup>5</sup> / <sub>16</sub> x 2 <sup>1</sup> / <sub>2</sub> "	1 <sup>1</sup> / <sub>2</sub>					
	<sup>5</sup> / <sub>16</sub> x 2 <sup>3</sup> / <sub>4</sub> "	1 <sup>3</sup> / <sub>4</sub>					
	<sup>5</sup> / <sub>16</sub> x 3 <sup>1</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>8</sub>					
	<sup>5</sup> / <sub>16</sub> x 3 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>2</sub>	180	259	196	351	
	<sup>5</sup> / <sub>16</sub> x 4"	2 <sup>3</sup> / <sub>4</sub>					
	<sup>5</sup> / <sub>16</sub> x 5 <sup>1</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>2</sub>					
	<sup>5</sup> / <sub>16</sub> x 6"	3 <sup>7</sup> / <sub>8</sub>					
	<sup>3</sup> / <sub>8</sub> x 3 <sup>1</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>8</sub>					
	<sup>3</sup> / <sub>8</sub> x 4"	2 <sup>3</sup> / <sub>4</sub>					
	<sup>3</sup> / <sub>8</sub> x 5 <sup>1</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>2</sub>					
	<sup>3</sup> / <sub>8</sub> x 6"	4					
	<sup>3</sup> / <sub>8</sub> x 7 <sup>1</sup> / <sub>4</sub> "	4 <sup>1</sup> / <sub>2</sub>					
	<sup>3</sup> / <sub>8</sub> x 8"	4 <sup>3</sup> / <sub>8</sub>					
	<sup>3</sup> / <sub>8</sub> x 10"	5					
	<sup>3</sup> / <sub>8</sub> x 12"	5 <sup>7</sup> / <sub>8</sub>					
	<sup>3</sup> / <sub>8</sub> x 14 <sup>1</sup> / <sub>8</sub> "	5 <sup>7</sup> / <sub>8</sub>					
	<sup>3</sup> / <sub>8</sub> x 16"	5 <sup>3</sup> / <sub>4</sub>					
LPS	<sup>1</sup> / <sub>4</sub> x 8"	2 <sup>7</sup> / <sub>8</sub>	128	201	136	395	0.52
LTF	<sup>3</sup> / <sub>8</sub> x 8"	3 <sup>7</sup> / <sub>8</sub>	163	216	202	373	0.70
	<sup>3</sup> / <sub>8</sub> x 10"	3 <sup>7</sup> / <sub>8</sub>					
	<sup>3</sup> / <sub>8</sub> x 12"	3 <sup>7</sup> / <sub>8</sub>					
PHEInox	<sup>1</sup> / <sub>4</sub> x 2 <sup>1</sup> / <sub>2</sub> "	1 <sup>1</sup> / <sub>2</sub>	134	187	162	306	0.70
	<sup>1</sup> / <sub>4</sub> x 3 <sup>1</sup> / <sub>8</sub> "	2					
	<sup>5</sup> / <sub>16</sub> x 2 <sup>1</sup> / <sub>2</sub> "	1 <sup>5</sup> / <sub>8</sub>	136	202	199	254	
	<sup>5</sup> / <sub>16</sub> x 3 <sup>1</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>8</sub>					
	<sup>5</sup> / <sub>16</sub> x 4"	2 <sup>1</sup> / <sub>2</sub>					
	<sup>5</sup> / <sub>16</sub> x 5 <sup>1</sup> / <sub>8</sub> "	3 <sup>3</sup> / <sub>8</sub>					
	<sup>5</sup> / <sub>16</sub> x 6"	3 <sup>7</sup> / <sub>8</sub>					
JTS	<sup>1</sup> / <sub>4</sub> x 3 <sup>3</sup> / <sub>8</sub> "	1 <sup>3</sup> / <sub>8</sub>	152	191	154	372	0.68
	<sup>1</sup> / <sub>4</sub> x 5"	1 <sup>5</sup> / <sub>8</sub>					
	<sup>1</sup> / <sub>4</sub> x 6 <sup>3</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>2</sub>					

For SI: 1 inch = 25.4 mm; 1 lbf = 4.4 N.

<sup>1</sup>Values must be multiplied by all applicable adjustment factors, in accordance with the NDS. When the fasteners are used in wet service conditions, the wet service factors shown in the table are applicable.

<sup>2</sup>Tabulated reference withdrawal design values are in pounds per inch of thread penetration into the side grain of the main member, and must be multiplied by the thread length embedded in the member in order to get the total withdrawal design value in pounds. Length of CEE threads must not be included in the withdrawal value determination.

<sup>3</sup>Tabulated pull-through design values are based on a minimum side member thickness of 3/4 inch.

These figures are only offered as a guide and are not reduce by any safety factor.  
For safety factor requirements in your area, contact your local building official, architect or engineer.

**TABLE 3—RSS™ REFERENCE LATERAL DESIGN VALUES (Z) FOR SINGLE SHEAR (TWO-MEMBER) CONNECTIONS<sup>1</sup>**  
**[For Sawn Lumber with Both Members of Identical Specific Gravity]**

FASTENER DESIGNATION		SIDE MEMBER THICKNESS, t (inches)	FASTENER PENETRATION INTO MAIN MEMBER, p (inches)	REFERENCE LATERAL DESIGN VALUE, Z (lbf) FOR SPECIFIC GRAVITIES OF:				WET SERVICE FACTOR, C <sub>M</sub>
				0.42 ≤ G < 0.55		0.55 ≤ G < 0.67		
				Parallel to Grain, Z <sub>  </sub>	Perpendicular to Grain, Z <sub>⊥</sub>	Parallel to Grain, Z <sub>  </sub>	Perpendicular to Grain, Z <sub>⊥</sub>	
RSS	1/4 x 2 1/2"	3/4	1 5/8	153	137	175	175	0.70
	1/4 x 2 3/4"	3/4	2					
	1/4 x 3 1/8"	3/4	2 3/8					
	1/4 x 3 1/2"	3/4	2 3/4					
	5/16 x 2 1/2"	3/4	1 5/8	168	133	214	178	
	5/16 x 2 3/4"	3/4	2					
	5/16 x 3 1/8"	3/4	2 3/8					
	5/16 x 3 1/2"	3/4	2 3/4					
	5/16 x 4"	1 1/2	2 3/8	239	236	333	257	
	5/16 x 5 1/8"	1 1/2	3 1/2					
	5/16 x 6"	2	3 7/8	265	299	472	289	
	3/8 x 3 1/8"	3/4	2 3/8	188	156	251	220	
	3/8 x 4"	1 1/2	2 3/8	224	205	274	264	
	3/8 x 5 1/8"	1 1/2	3 5/8					
	3/8 x 6"	2	3 7/8	270	296	325	288	
	3/8 x 7 1/4"	2 3/4	4 1/4	423	291	593	304	
	3/8 x 8"	3 1/2	4 3/8					
	3/8 x 10"	3 1/2	6 1/4					
	3/8 x 12"	3 1/2	8 3/8					
	3/8 x 14 1/8"	3 1/2	10 5/8					
	3/8 x 16"	3 1/2	12 1/8					
LPS	1/4 x 8"	5	2 7/8	249	257	358	219	0.62
LTF	3/8 x 8"	4	3 7/8	433	315	556	402	0.70
	3/8 x 10"	6	3 7/8					
	3/8 x 12"	8	3 3/4					
PHEInox	1/4 x 2 1/2"	3/4	1 5/8	162	134	215	185	0.70
	1/4 x 3 1/8"	3/4	2 3/8					
	5/16 x 2 1/2"	3/4	1 5/8	151	149	181	175	
	5/16 x 3 1/8"	3/4	2 3/8					
	5/16 x 4"	1 1/2	2 3/8	249	229	337	272	
	5/16 x 5 1/8"	1 1/2	3 5/8					
	5/16 x 6"	2	3 7/8	302	340	449	358	
JTS	1/4 x 3 3/8"	1 3/4	1 5/8	157	168	217	217	0.70
	1/4 x 5"	1 3/4	3 1/4	168	221	241	237	
	1/4 x 6 3/4"	1 3/4	5					

For S&T 1 inch = 25.4 mm ; 1 lbf = 4.4 N.

<sup>1</sup>Values must be multiplied by all applicable adjustment factors, in accordance with the NDS. When the fasteners are used in wet service conditions, the wet service factors shown in the table are applicable.

These figures are only offered as a guide and are not reduce by any safety factor.  
 For safety factor requirements in your area, contact your local building official, architect or engineer.



# TECHNICAL FASTENER DATA

**RSS<sup>™</sup>**

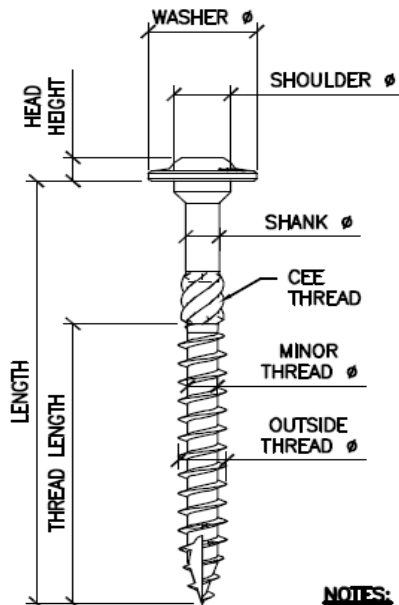
TABLE 5 - CONNECTION GEOMETRY

CONNECTION GEOMETRY / CRITERIA	DIAMETERS <sup>1</sup>	RSS, LPS, JTS & PHEINOX 1/4" NOMINAL DIAMETER (inches)	RSS & PHEINOX 5/16" NOMINAL DIAMETER (inches)	RSS & LTF 3/8" NOMINAL DIAMETER (inches)
Minimum Edge Distance				
Loading Parallel to Grain	8	1 1/2	1 5/8	1 7/8
Loading Perpendicular to grain, Loaded Edge	8	1 1/2	1 5/8	1 7/8
Loading Perpendicular to grain, Unloaded Edge	8	1 1/2	1 5/8	1 7/8
Minimum End Distance				
Tension Load Parallel to Grain	15	2 5/8	3	3 3/8
Compression Load Parallel to Grain	10	1 3/4	2	2 1/4
Load Perpendicular to Grain	10	1 3/4	2	2 1/4
Spacing (Pitch) Between Fasteners in a Row				
Parallel to Grain	15	2 5/8	3	3 3/8
Perpendicular to Grain	10	1 3/4	2	2 1/4
Spacing (Gage) Between Rows of Fasteners				
In-Line	5	7/8	1	1 1/8
Staggered	2.5	1/2	1/2	5/8
Minimum Penetration into Main Member For Single Shear Connections	6 <sup>2</sup>	1 1/8	1 1/4	1 3/8

For SI: 1 inch = 25.4 mm

<sup>1</sup> Diameter is the shank diameter as specified in Table 1.

<sup>2</sup> Reduce lateral load values provided in Table 4 when penetration is less than 10D.



SCREW TYPE	HEAD STAMP	WASHER Ø ± 0.020	HEAD HEIGHT ± 0.010	SHOULDER Ø ± 0.010	CEE THREAD <sup>2</sup>
RSS 1/4 (6.0mm)		0.533	0.110	0.244	LENGTH ≥ 3/8"
RSS 5/16 (7.0mm)		0.620	0.157	0.301	LENGTH ≥ 3/8"
RSS 3/8 (8.0mm)		0.689	0.181	0.364	LENGTH ≥ 3/8"
LTF 3/8 (8.0mm)		0.688	0.181	0.364	LENGTH ≥ 3/8"
LPS 1/4 (6.0mm)		0.535	0.090	0.244	NO
JTS 1/4 (6.3mm)		0.534	0.090	0.244	LENGTH ≥ 5"

**NOTES:**

- SEE TABLE 1 FOR OVERALL LENGTH, THREAD LENGTH, SHANK DIAMETER, OUTSIDE THREAD DIAMETER AND MINOR THREAD DIAMETER.
- CEE THREAD ON SCREWS WITH LENGTHS GREATER THAN OR EQUAL TO THOSE INDICATED. NOT USED FOR CALCULATIONS.

**FIGURE 1 — FASTENER DIMENSIONS**



## TECHNICAL FASTENER DATA

### R4™, Trim™, Kameleon™

TABLE 1—FASTENER SPECIFICATIONS

FASTENER DESIGNATION		OVERALL LENGTH <sup>1</sup> (inches)	LENGTH OF THREAD <sup>2</sup> (inches)	MINOR THREAD DIAMETER <sup>3</sup> (inches)	SHANK DIAMETER <sup>3</sup> (inches)	OUTSIDE THREAD DIAMETER <sup>3</sup> (inches)	ALLOWABLE STEEL STRENGTH		
							Bending Yield Strength <sup>4</sup> <i>F</i> <sub>yb</sub> (psi)	Tensile (psi) [pounds]	Shear (psi) [pounds]
R4	9x2"	2	1 1/4	0.117	0.130	0.174	167160	61760 [627]	39660 [428]
	9x2 1/2"	2 3/8	1 5/8						
	9x2 3/4"	2 3/4	1 7/8						
	9x3 1/8"	3 1/8	2 1/8						
	10x2 1/2"	2 3/8	1 5/8	0.128	0.142	0.194	151150	62640 [846]	44520 [542]
	10x2 3/4"	2 3/4	1 7/8						
	10x3 1/8"	3 1/8	2 1/8						
	10x3 1/2"	3 1/2	2 3/8						
	10x4"	3 7/8	2 5/8	0.153	0.172	0.238	141350	60580 [1134]	38610 [655]
	10x4 3/4"	4 5/8	3						
	12x2 1/2"	2 3/8	1 1/2						
	12x2 3/4"	2 3/4	1 3/4						
	12x3 1/8"	3 1/8	2 1/8						
	12x3 1/2"	3 1/2	2 3/8						
	12x4"	3 7/8	2 5/8						
	12x4 3/4"	4 5/8	3						
	12x5 5/8"	5 1/2	3						
	12x6 3/8"	6 1/4	3						
	12x7 1/4"	7	3						
	12x8"	7 7/8	2 5/8						
12x10"	9 3/4	2 3/4							
12x12"	11 3/4	2 3/4							
TRIM	8x2 1/2"	2 3/8	1 1/2	0.106	0.116	0.160	156220	56580 [499]	40000 [360]
	8x2 3/4"	2 3/4	1 7/8						
	8x3 1/8"	3 1/8	2 1/8						
	9x2 1/2"	2 3/8	1 5/8	0.114	0.128	0.176	155030	57000 [576]	42160 [425]
	9x2 3/4"	2 3/4	1 3/4						
	9x3 1/8"	3 1/8	2 1/8						
KAMELEON	9x2 1/2"	2 1/2	1 5/8	0.119	0.134	0.177	168640	57490 [634]	37870 [437]
	9x2 3/4"	2 3/4	1 3/4						
	9x3 1/8"	3 1/8	2 1/8						

For SI: 1 inch = 25.4 mm; 1 psi = 6.9 kPa.

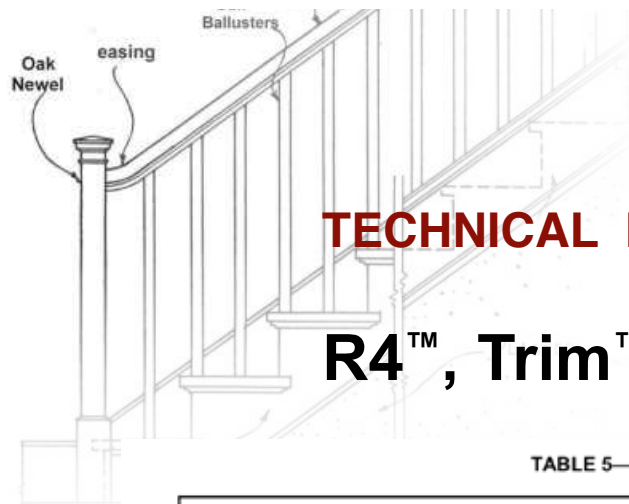
**ULTIMATE LOAD VALUES TENSILE AND SHEAR**

<sup>1</sup>Overall length of fastener is measured from the top of the head to bottom of the tip. See Figure 1.

<sup>2</sup>Length of thread includes tip. See detailed illustration, Figure 1.

<sup>3</sup>Minor thread, shank and outside thread diameters are shown in table without manufacturing tolerances.

<sup>4</sup>Bending yield strength determined in accordance with ASTM F 1575 using the minor thread diameter.



## TECHNICAL FASTENER DATA

### R4™, Trim™, Kameleon™

TABLE 5—CONNECTION GEOMETRY REQUIREMENTS<sup>1,2</sup>

CONDITION		MINIMUM DISTANCE OR SPACING (inches)			
		D = 0.111"	D = 0.128-0.134"	D = 0.142"	D = 0.171"
End distance	Loading toward end	2	2	2 1/8	2 5/8
	Loading away from end	1 1/8	1 1/4	1 3/8	1 3/4
	Loading perpendicular to grain	NA <sup>3</sup>	NA <sup>3</sup>	NA <sup>3</sup>	NA <sup>3</sup>
Edge distance	Loading parallel to grain	1	1	1 1/8	1 3/8
	Loading perpendicular to grain	NA <sup>3</sup>	NA <sup>3</sup>	NA <sup>3</sup>	NA <sup>3</sup>
Spacing between fasteners in a row	Loading parallel to grain	1 3/4	2	2 1/8	2 5/8
	Loading perpendicular to grain	NA <sup>3</sup>	NA <sup>3</sup>	NA <sup>3</sup>	NA <sup>3</sup>
Spacing between rows	In-line rows	5/8	5/8	3/4	7/8
	Staggered rows <sup>4</sup>	1/4	3/8	3/8	3/8

For SI: 1 inch = 25.4 mm.

<sup>1</sup> End distances, edge distances and screw spacing must be sufficient to prevent splitting of the wood, or as required by this table, whichever is the more restrictive. See Section 4.2.

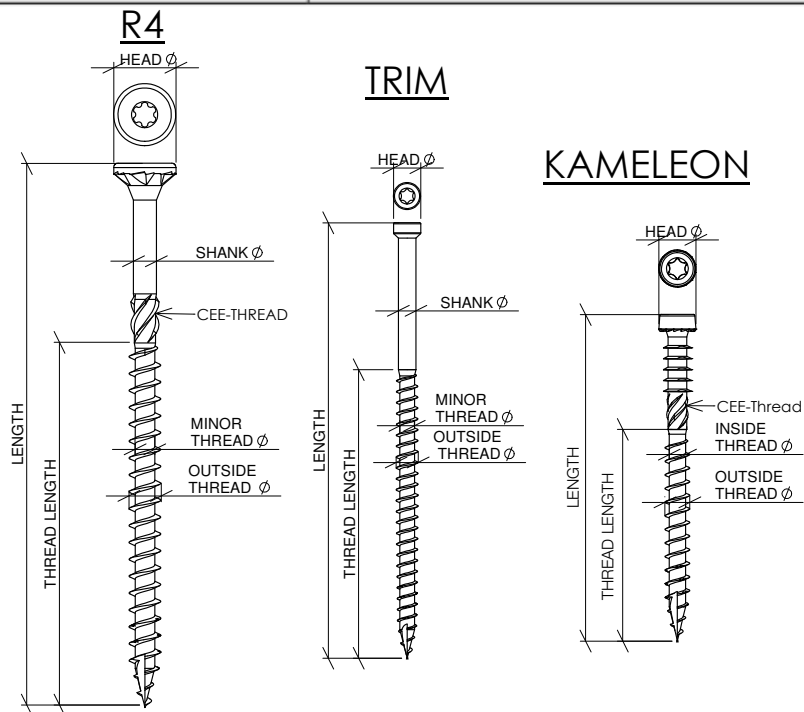
<sup>2</sup> The term *D* is the shank diameter, as specified in Table 1.

<sup>3</sup> Loading perpendicular to grain is outside the scope of this evaluation report.

<sup>4</sup> Values for spacing between staggered rows apply where screws in adjacent rows are offset by half of the spacing between screws in a row.

TABLE 6—EXPOSURE CONDITIONS FOR FASTENERS WITH INTENDED USE AND LIMITATIONS OF RECOGNITION

EXPOSURE CONDITION	TYPICAL APPLICATIONS	RECOGNITION LIMITATIONS
<b>Corrosion Resistance of Fasteners</b>		
1	Treated wood in dry use applications	Limited to use where equilibrium moisture content of the chemically treated wood meets the dry service conditions as described in the NDS.
3	General construction	Limited to freshwater and chemically treated wood exposure, i.e., no saltwater exposure.







## TECHNICAL FASTENER DATA

### R4™, Trim™, Kameleon™

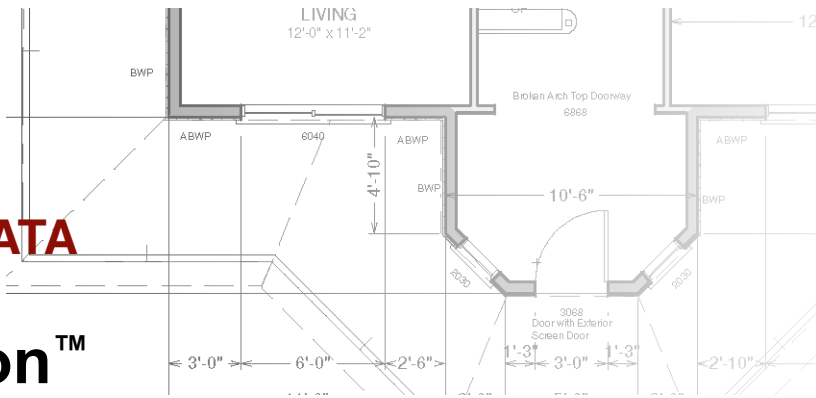


TABLE 2A—CLIMATEK™ COATED FASTENER  
REFERENCE WITHDRAWAL  
DESIGN VALUES (W)<sup>1,2</sup>

[Tabulated Withdrawal Design Values (W) Are in Pounds per Inch of Thread Penetration into Side Grain of Main Member]

FASTENER DESIGNATION	THREAD LENGTH <sup>3</sup> , (inches)	WITHDRAWAL, W (lbs./in.) <sup>3</sup> FOR SPECIFIC GRAVITY = 0.67
R4	9x2"	179
	9x2 <sup>1</sup> / <sub>2</sub> "	
	9x2 <sup>3</sup> / <sub>4</sub> "	
	9x3 <sup>1</sup> / <sub>8</sub> "	
	10x2 <sup>1</sup> / <sub>2</sub> "	
	10x2 <sup>3</sup> / <sub>4</sub> "	249
	10x3 <sup>1</sup> / <sub>8</sub> "	
	10x3 <sup>1</sup> / <sub>2</sub> "	
	10x4"	
	10x4 <sup>3</sup> / <sub>4</sub> "	
	12x2 <sup>1</sup> / <sub>2</sub> "	255
	12x2 <sup>3</sup> / <sub>4</sub> "	
	12x3 <sup>1</sup> / <sub>8</sub> "	
	12x3 <sup>1</sup> / <sub>2</sub> "	
	12x4"	
TRIM	12x4 <sup>3</sup> / <sub>4</sub> "	175
	12x5 <sup>3</sup> / <sub>8</sub> "	
	12x6 <sup>3</sup> / <sub>8</sub> "	
	12x7 <sup>1</sup> / <sub>4</sub> "	
	12x8"	221
	12x10"	
	12x12"	
	8x2 <sup>1</sup> / <sub>2</sub> "	186
KAMELEON	8x2 <sup>3</sup> / <sub>4</sub> "	
	8x3 <sup>1</sup> / <sub>8</sub> "	
	9x2 <sup>1</sup> / <sub>2</sub> "	
	9x2 <sup>3</sup> / <sub>4</sub> "	
	9x3"	

Pilot hole requirements:  
70% of the root diameter of the screw

For S1: 1 inch = 25.4 mm; 1 lb/in = 175 N/m.

<sup>1</sup>Values must not be multiplied by any adjustment factors.

<sup>2</sup>Fastener withdrawal was tested in accordance with ASTM D1761.

<sup>3</sup>Reference withdrawal design values (W) shall be multiplied by the length of thread penetration in the main member (including tip).

TABLE 2B—PHEINOX™ STAINLESS STEEL FASTENER  
REFERENCE WITHDRAWAL  
DESIGN VALUES (W)<sup>1,2</sup>

[Tabulated Withdrawal Design Values (W) Are in Pounds per Inch of Thread Penetration into Side Grain of Main Member]

FASTENER DESIGNATION	THREAD LENGTH <sup>3</sup> , (inches)	WITHDRAWAL, W (lbs./in.) <sup>3</sup> FOR SPECIFIC GRAVITY = 0.67
R4	9x2"	213
	10x2 <sup>1</sup> / <sub>2</sub> "	123
	10x2 <sup>3</sup> / <sub>4</sub> "	
	10x3 <sup>1</sup> / <sub>8</sub> "	
	10x4"	
	12x2 <sup>1</sup> / <sub>2</sub> "	
	12x2 <sup>3</sup> / <sub>4</sub> "	146
	12x3 <sup>1</sup> / <sub>8</sub> "	
	12x4"	
	12x4 <sup>3</sup> / <sub>4</sub> "	
TRIM	8x2 <sup>1</sup> / <sub>2</sub> "	106
	8x2 <sup>3</sup> / <sub>4</sub> "	
	8x3 <sup>1</sup> / <sub>8</sub> "	
	9x2 <sup>1</sup> / <sub>2</sub> "	115
	9x2 <sup>3</sup> / <sub>4</sub> "	
	9x3 <sup>1</sup> / <sub>8</sub> "	

Pilot hole requirements:  
80% of the root diameter of the screw

For S1: 1 inch = 25.4 mm; 1 lb/in = 175 N/m.

<sup>1</sup>Values must not be multiplied by any adjustment factors.

<sup>2</sup>Fastener withdrawal was tested in accordance with ASTM D1761.

<sup>3</sup>Reference withdrawal design values (W) shall be multiplied by the length of thread penetration in the main member (including tip).

TABLE 3B—PHEINOX™ STAINLESS STEEL FASTENER  
REFERENCE PULL-THROUGH  
DESIGN VALUES (P)<sup>1</sup>

[Tabulated Pull-Through Design Values (P) are in Pounds]

FASTENER DESIGNATION	MINIMUM SIDE MEMBER THICKNESS (inch)	PULL-THROUGH, P (lb) FOR SPECIFIC GRAVITY = 0.67
R4	9x2"	184
	10x2 <sup>1</sup> / <sub>2</sub> "	220
	10x2 <sup>3</sup> / <sub>4</sub> "	
	10x3 <sup>1</sup> / <sub>8</sub> "	
	10x4"	
	12x2 <sup>1</sup> / <sub>2</sub> "	
	12x3 <sup>1</sup> / <sub>8</sub> "	336
	12x4"	
	12x4 <sup>3</sup> / <sub>4</sub> "	
	12x5 <sup>3</sup> / <sub>8</sub> "	
TRIM	8x2 <sup>1</sup> / <sub>2</sub> "	70
	8x2 <sup>3</sup> / <sub>4</sub> "	
	8x3 <sup>1</sup> / <sub>8</sub> "	
	9x2 <sup>1</sup> / <sub>2</sub> "	124
	9x2 <sup>3</sup> / <sub>4</sub> "	
	9x3 <sup>1</sup> / <sub>8</sub> "	

Pilot hole requirements:  
90% of the root diameter of the screw

For S1: 1 inch = 25.4 mm; 1 lb = 4.4N.

<sup>1</sup>Values shall be multiplied by all applicable adjustment factors (see NDS Table 10.3.1) as applicable to withdrawal.

TABLE 3A—CLIMATEK™ COATED FASTENER  
REFERENCE PULL-THROUGH  
DESIGN VALUES (P)<sup>1</sup>

[Tabulated Pull-Through Design Values (P) are in Pounds]

FASTENER DESIGNATION	MINIMUM SIDE MEMBER THICKNESS (inch)	PULL-THROUGH, P (lb) FOR SPECIFIC GRAVITY = 0.67
R4	9x2"	162
	9x2 <sup>1</sup> / <sub>2</sub> "	
	9x2 <sup>3</sup> / <sub>4</sub> "	
	9x3 <sup>1</sup> / <sub>8</sub> "	
	10x2 <sup>1</sup> / <sub>2</sub> "	
	10x2 <sup>3</sup> / <sub>4</sub> "	275
	10x3 <sup>1</sup> / <sub>8</sub> "	
	10x3 <sup>1</sup> / <sub>2</sub> "	
	10x4"	
	10x4 <sup>3</sup> / <sub>4</sub> "	
	12x2 <sup>1</sup> / <sub>2</sub> "	407
	12x2 <sup>3</sup> / <sub>4</sub> "	
	12x3 <sup>1</sup> / <sub>8</sub> "	
	12x3 <sup>1</sup> / <sub>2</sub> "	
	12x4"	
TRIM	12x4 <sup>3</sup> / <sub>4</sub> "	61
	12x5 <sup>3</sup> / <sub>8</sub> "	
	12x6 <sup>3</sup> / <sub>8</sub> "	
	12x7 <sup>1</sup> / <sub>4</sub> "	
	12x8"	94
	12x10"	
KAMELEON	8x2 <sup>1</sup> / <sub>2</sub> "	143
	8x2 <sup>3</sup> / <sub>4</sub> "	
	9x3"	

Pilot hole requirements:  
90% of the root diameter of the screw

For S1: 1 inch = 25.4 mm; 1 lb = 4.4N

<sup>1</sup>Values shall be multiplied by all applicable adjustment factors (see NDS Table 10.3.1) as applicable to withdrawal.



# TECHNICAL FASTENER DATA

## R4™, Trim™, Kameleon™



**TABLE 4A—CLIMATEK™ COATED FASTENER  
REFERENCE LATERAL DESIGN VALUES (Z) FOR SINGLE  
SHEAR (TWO-MEMBER) CONNECTIONS<sup>1,2</sup>**  
[For Sawn Lumber with Both Members of Identical Specific Gravity]

FASTENER DESIGNATION	SIDE MEMBER THICKNESS, $t_s$ (inch)	FASTENER PENETRATION, $P$ (inches)	REFERENCE LATERAL DESIGN VALUE, $Z$ (pounds) FOR SPECIFIC GRAVITY OF:  0.67 Parallel to Grain, $Z_{  }$
R4	9x2"	$\frac{3}{4}$	$1\frac{1}{8}$
	9x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{1}{2}$
	9x2 $\frac{3}{4}$ "	$\frac{3}{4}$	2
	9x3 $\frac{1}{8}$ "	$\frac{3}{4}$	2 $\frac{3}{8}$
	10x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{1}{2}$
	10x2 $\frac{3}{4}$ "	$\frac{3}{4}$	2
	10x3 $\frac{1}{8}$ "	$\frac{3}{4}$	2 $\frac{3}{8}$
	10x3 $\frac{1}{2}$ "	$\frac{3}{4}$	2 $\frac{3}{4}$
	10x4"	$\frac{3}{4}$	3 $\frac{1}{8}$
	10x4 $\frac{3}{4}$ "	$\frac{3}{4}$	3 $\frac{1}{8}$
	12x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{1}{2}$
	12x2 $\frac{3}{4}$ "	$\frac{3}{4}$	2
	12x3 $\frac{1}{8}$ "	$\frac{3}{4}$	2 $\frac{3}{8}$
	12x3 $\frac{1}{2}$ "	$\frac{3}{4}$	2 $\frac{3}{4}$
	12x4"	$\frac{3}{4}$	3 $\frac{1}{8}$
	12x4 $\frac{3}{4}$ "	$\frac{3}{4}$	3 $\frac{1}{8}$
	12x5 $\frac{5}{8}$ "	$\frac{3}{4}$	4 $\frac{3}{4}$
	12x6 $\frac{3}{8}$ "	$\frac{3}{4}$	5 $\frac{1}{2}$
	12x7 $\frac{1}{4}$ "	$\frac{3}{4}$	6 $\frac{1}{4}$
	12x8"	$\frac{3}{4}$	7
	12x10"	$\frac{3}{4}$	9
	12x12"	$\frac{3}{4}$	11
TRIM	8x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{1}{2}$
	8x2 $\frac{3}{4}$ "	$\frac{3}{4}$	2
	8x3 $\frac{1}{8}$ "	$\frac{3}{4}$	2 $\frac{1}{2}$
	9x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{1}{2}$
	9x2 $\frac{3}{4}$ "	$\frac{3}{4}$	2
	9x3 $\frac{1}{8}$ "	$\frac{3}{4}$	2 $\frac{3}{8}$
KAMELEON	9x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{5}{8}$
	9x2 $\frac{3}{4}$ "	$\frac{3}{4}$	$1\frac{7}{8}$
	9x3"	$\frac{3}{4}$	$1\frac{7}{8}$

**Pilot hole requirements:**  
90% of the root diameter of the screw

For SI: 1 inch = 25.4 mm.

<sup>1</sup>Values shall be multiplied by all applicable adjustment factors (see NDS Table 10.3.1).

<sup>2</sup>Lateral load testing was performed in accordance with ASTM D1761.

**TABLE 4B—PHEINOX™ STAINLESS STEEL FASTENER  
REFERENCE LATERAL DESIGN VALUES (Z) FOR SINGLE  
SHEAR (TWO-MEMBER) CONNECTIONS<sup>1,2</sup>**  
[For Sawn Lumber with Both Members of Identical Specific Gravity]

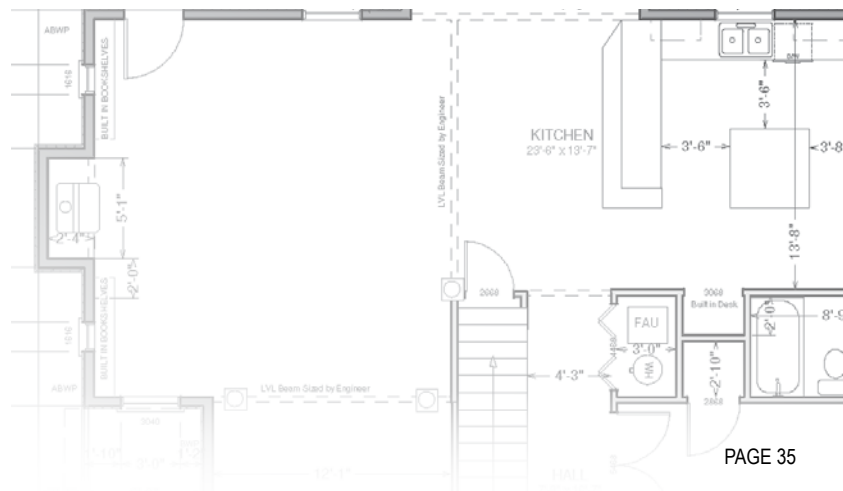
FASTENER DESIGNATION	SIDE MEMBER THICKNESS, $t_s$ (inch)	FASTENER PENETRATION, $P$ (inches)	REFERENCE LATERAL DESIGN VALUE, $Z$ (pounds) FOR SPECIFIC GRAVITY OF:  0.67 Parallel to Grain, $Z_{  }$
R4	9x2"	$\frac{3}{4}$	212
	10x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{1}{2}$
	10x2 $\frac{3}{4}$ "	$\frac{3}{4}$	2
	10x3 $\frac{1}{8}$ "	$\frac{3}{4}$	2 $\frac{3}{8}$
	10x4"	$\frac{3}{4}$	3 $\frac{1}{8}$
	12x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{5}{8}$
	12x3 $\frac{1}{8}$ "	$\frac{3}{4}$	2 $\frac{3}{8}$
	12x4"	$\frac{3}{4}$	3 $\frac{1}{8}$
	12x4 $\frac{3}{4}$ "	$\frac{3}{4}$	3 $\frac{1}{8}$
	8x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{5}{8}$
TRIM	8x2 $\frac{3}{4}$ "	$\frac{3}{4}$	2
	8x3 $\frac{1}{8}$ "	$\frac{3}{4}$	2 $\frac{3}{8}$
	9x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{5}{8}$
	9x2 $\frac{3}{4}$ "	$\frac{3}{4}$	2
	9x3 $\frac{1}{8}$ "	$\frac{3}{4}$	2 $\frac{3}{8}$
RT COMPOSITE	8x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{1}{2}$
	8x2 $\frac{3}{4}$ "	$\frac{3}{4}$	2
	8x3 $\frac{1}{8}$ "	$\frac{3}{4}$	2 $\frac{3}{8}$
	9x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{1}{2}$
	9x2 $\frac{3}{4}$ "	$\frac{3}{4}$	2
	9x3 $\frac{1}{8}$ "	$\frac{3}{4}$	2 $\frac{3}{8}$

**Pilot hole requirements:**  
90% of the root diameter of the screw

For SI: 1 inch = 25.4 mm.

<sup>1</sup>Values shall be multiplied by all applicable adjustment factors (see NDS Table 10.3.1).

<sup>2</sup>Lateral load testing was performed in accordance with ASTM D1761.





## TECHNICAL FASTENER DATA

# Caliburn™, Caliburn™ PH, Caliburn™ XL

### FOOTING SCHEDULE

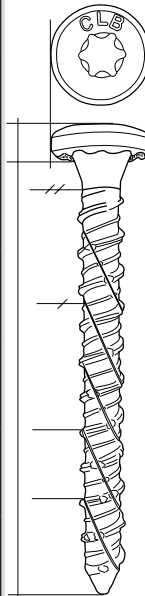
HOUSE WALLS	20" x 9" Min
DECKS & PORCHES	18" x 9" Min
BEARING WALL	20" x 9" Min
GARAGE WALL	18" x 9" Min

Min 2 #4 Rebar Horizontal  
on undisturbed or compacted soil

### INSULATION SCHEDULE

Ceilings	R-38 Min
Wall above grade	R-19 Min
Wall interior below grade	R-13 Min

TECHNICAL DATA					
SCREW SIZE	EMBED. DEPTH (in.)	2000 psi CONCRETE		BIT SIZE	DRILL SIZE
		Tension/Pullout lbs	Shear lbs		
1/4 X 1 3/4	1 1/2	1655	1505	T30	3/16
1/4 X 2 1/4	2	2120	2055	T30	3/16
19/64 X 2 3/4	2 1/2	2209	3135	T40	1/4
19/64 X 3 1/2	3 1/4	2523	3200	T40	1/4
19/64 X 5	4 3/4	5724	3300	T40	1/4



### Note:

All values are based on close tolerance holes drilled a minimum of 1/4" deeper than embedment depth.

All listed values shown are average pull out and shear values for GRK's CALIBURN™, Caliburn™ PH and CALIBURN™ XL screws. Values will vary depending on a number of factors, including the quality of the concrete and size of the drill hole.

These figures are only offered as a guide. They are not guaranteed by GRK and not reduced by any safety factor.

For safety factor requirements in your area, contact your local building official, architect or engineer. Testing was performed according to ASTM standard E-488-96. **The Caliburn™ XL has also an ICC Report ESR-3251.** For most current information and technical specifications (shear & tension) visit our website: [www.grkfasteners.com](http://www.grkfasteners.com).

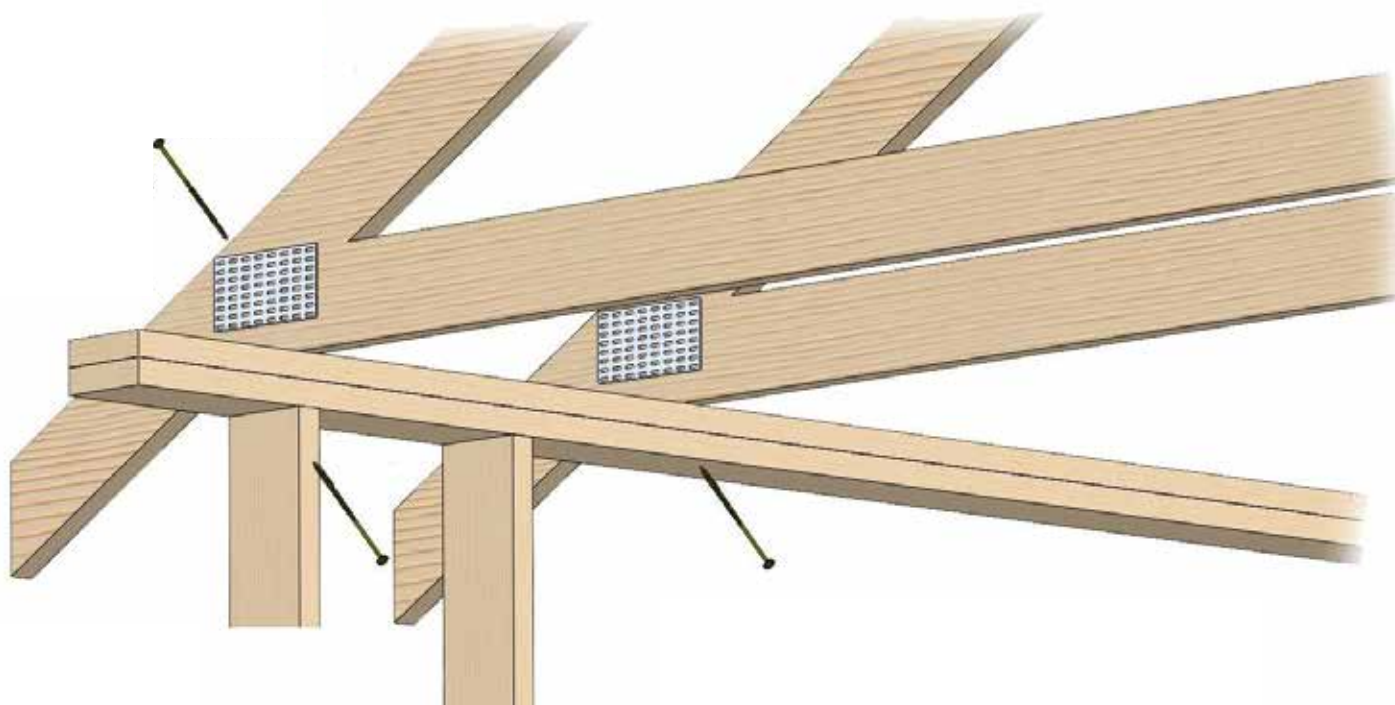


## Roof Joist or Roof Truss to Top Plate or Stud Connection

Table 1 Allowable Design Loads for Roof Joist or Roof Truss to Top Plate Connections

Load Type	Screw Type	Wood Species			
		SP (Southern Pine)	DFL (Douglas Fir Larch)	HF (Hem Fir)	SPF (Spruce Pine Fir)
Allowable Uplift in lbs	Ø3/8 RSS	1230	1017	752	717
Allowable Shear / Lateral in lbs		528	480	409	393
Allowable Uplift in lbs	# 12 R4	873	722	534	509
Allowable Shear / Lateral in lbs		352	322	280	273
Allowable Uplift in lbs	Ø1/4 LPS/RSS	562	465	344	328
Allowable Shear / Lateral in lbs		242	221	192	188

FIGURE 1 Typical Connection Details



# Multiple Sawn Lumber & Engineered Wood Beams

Table 1 MFR Lumber G=0.5

JTS Screw	# of Screw rows	Fastener Spacing in inches	Allowable Face Mounted Loads Per Foot (PLF) Assembly per Table 3					
			A	B	C	D	E	F
¾ x 3-3/8"	2	24	212					
	2	16	318					
	2	12	424					
	3	24	318					
	3	16	477					
	3	12	636					
¾ x 5"	2	24		212		238		
	2	16		318		357		
	2	12		424		476		
	3	24		318		357		
	3	16		477		536		
	3	12		636		714		
¾ x 6-3/4"	2	24			212		255	238
	2	16			318		383	357
	2	12			424		510	476
	3	24			318		383	357
	3	16			477		575	536
	3	12			636		766	714

Note: 1. Applied load from joist are assumed to be uniform  
2. Fastener capacity is based on fastener spacing, not joist spacing

Table 2 Sawn Lumber with Varying Specific Gravity values

RSS	# of Screw rows	Fastener Spacing in inches	Allowable Face Mounted Loads Per Foot (PLF)			
			S.Pine G=0.55	D.Fir G=0.50	SPF G=0.42	Assembly per Table 3
¾ x 2-3/4"	2	24	190	165	127	G
	2	16	285	248	191	
	2	12	380	330	254	
	3	24	285	248	191	
	3	16	428	372	286	
	3	12	570	495	381	
5/16 x 4"	2	24	257	214	210	H
	2	16	386	321	315	
	2	12	514	428	420	
	3	24	386	321	315	
	3	16	578	482	473	
	3	12	771	642	630	
5/16 x 6"	2	24	257	214	210	I
	2	16	386	321	315	
	2	12	514	428	420	
	3	24	386	321	315	
	3	16	578	482	473	
	3	12	771	642	630	

Note: 1. Applied load from joist are assumed to be uniform  
2. Fastener capacity is based on fastener spacing, not joist spacing

Table 3 Assembly Types (Cutting Plane 'A-A' per Fig.3)

MFR Lumber		
A 2 x 1-3/4"	B 3 x 1-3/4"	C 4 x 1-3/4"
D 1 x 1-3/4\" to 3-1/2"	E 2 x 3-1/2"	F 1-3/4\" ES of 3- 1/2"
Sawn Lumber		
G 2 x 1-1/2"	H 3 x 1-1/2"	I 4 x 1-1/2"

Note: Load should be applied to the face w/the screw head

## ABBREVIATIONS:

D.Fir = Douglas Fir-Larch  
ES = each side  
H. Fir = Hem -Fir  
JTS = Joist and Truss Screw  
MFR = Manufactured structural composite lumber  
PLF = Pounds per linear foot  
RSS = Rugged Structural Screw  
SPF = Spruce-Pine-Fir  
S.Pine = Southern Pine  
tm = Thickness of main member  
ts = Thickness of side member  
TYP = Typical  
o.c. = on center

Minimum Spacing Geometry - perpendicular to grain loading

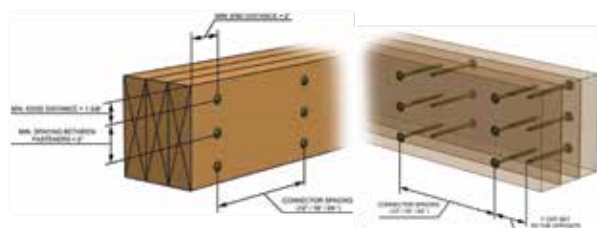


Figure 1a

Figure 1b

Multi-Ply Beam with One Face Loaded

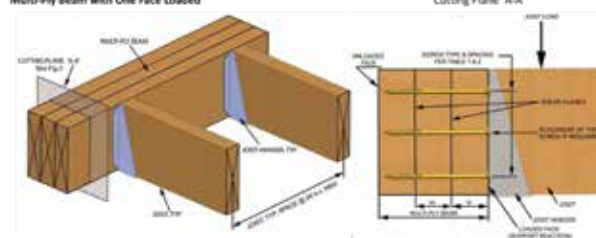
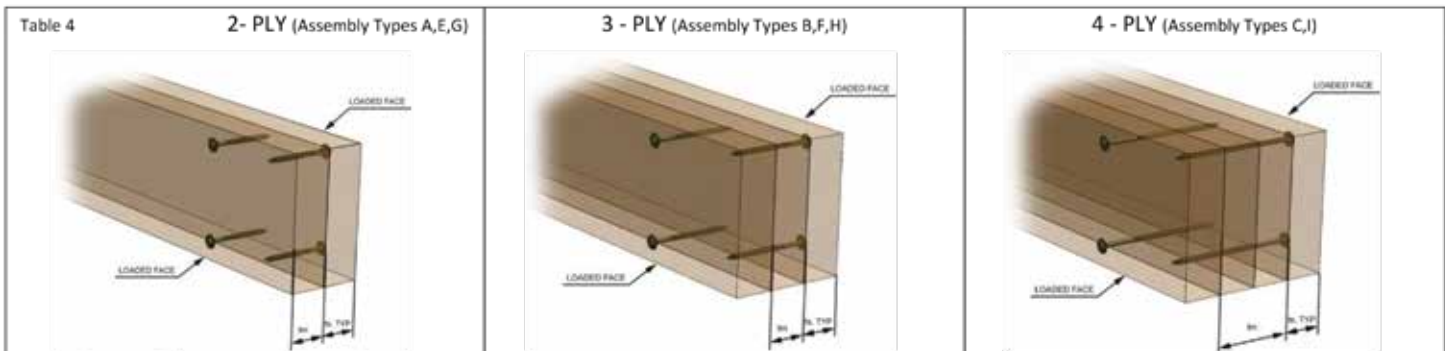


Figure 2

Figure 3

# Multiple Sawn Lumber & Engineered Wood Beams

## Multi-Ply Beams w/loads on Both Faces



Note: 1. See Tables 1 & 2 for load carrying capacity.  
2. RSS/JTS screws shall be sized to penetrate laminations from both sides.

## Multi-Ply Beam Point Load

Table 5    MFR Lumber G=0.5

JTS Screw	# Screws	Max Point Load to One Side of Member **					
		A	B	C	D	E	F
1/4 x 3-3/8"	4	848					
	6	1272					
	8	1696					
1/4 x 5"	4		848		952		
	6		1272		1428		
	8		1696		1904		
1/4 x 6-3/4"	4			848		1020	952
	6			1272		1530	1428
	8			1696		2040	1904

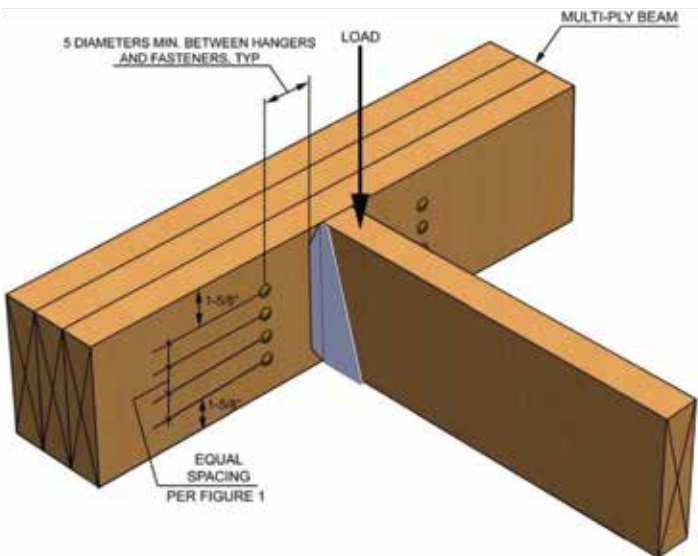


Figure 5

Table 6    Sawn Lumber with Varying Specific Gravity values

RSS	# Screws	Max Point Load to One Side of Member **				Assembly
		S.Pine G=0.55	D.Fir G=0.50	SPF G=0.42		
1/4 x 2-3/4"	4	760	660	508		G
	6	1140	990	762		
	8	1520	1320	1016		
5/16 x 4"	4	1028	856	840		H
	6	1542	1284	1260		
	8	2056	1712	1680		
5/16 x 6"	4	1028	856	840		I
	6	1542	1284	1260		
	8	2056	1712	1680		

\*\* Note when applying loads on both faces of built up beam, screws determined from table 5 & 6 shall be installed on both sides 1" offset for rows on opposite face.

## Multi-Ply Beam Top-Loaded

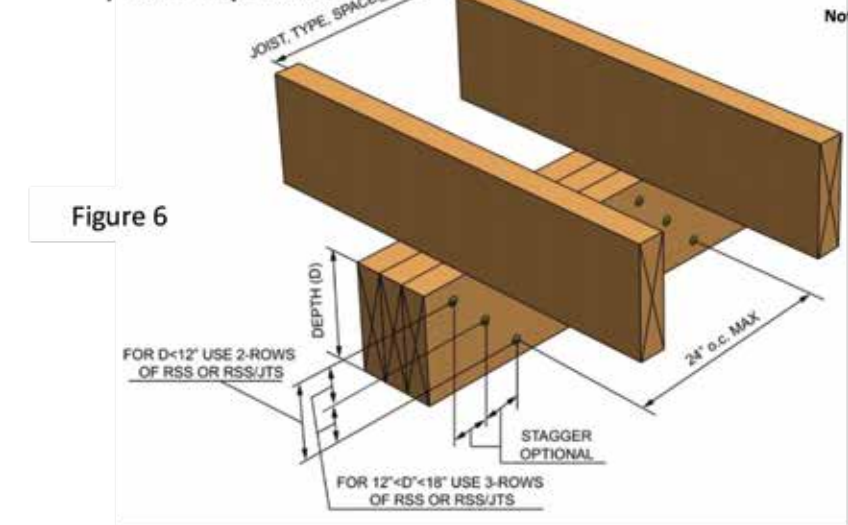


Figure 6

Note: 1. Load must be applied evenly across entire beam width.  
Otherwise, use connection for side-loaded beams.  
2. RSS/JTS screw shall be sized to penetrate through all plies  
3. For beams with 4 or more plies, install screws on both faces 1" offset between rows on opposite faces.



Scan code for the ICC Report ESR-2442



# Ledger Board: Structural Screw

RSS 5/16 x 4"			Joist span				
			6 ft	8 ft	10 ft	12 ft	14 ft
Live load (psf)	Wood Species	Screw Shear Capacity	Screw Spacing in inches				
40	G= 0.42 / SPF	182	14	10	8	7	6
40	G = 0.50 / DF-PSL-LVL-LSV	213	17	12	10	8	7
40	G = 0.55 / SP	252	20	15	12	10	8
60	G= 0.42 / SPF	182	10	7	6	5	4
60	G = 0.50 / DF-PSL-LVL-LSV	213	12	9	7	6	5
60	G = 0.55 / SP	252	14	10	8	7	6

NOTE: 1. Deck Dead Load = 10 psf

**Table 3 (wet-use in- service)**

RSS 5/16 x 4"			Joist span				
			6 ft	8 ft	10 ft	12 ft	14 ft
Live load (psf)	Wood Species	Screw Shear Capacity	Screw Spacing in inches/ <u>wet-use in- service</u>				
40	G= 0.42 / SPF	127	10	7	6	5	4
40	G = 0.50 / DF-PSL-LVL-LSV	150	12	9	7	6	5
40	G = 0.55 / SP	176	14	10	8	7	6
60	G= 0.42 / SPF	127	7	5	4	3	3
60	G = 0.50 / DF-PSL-LVL-LSV	150	8	6	5	4	3
60	G = 0.55 / SP	176	10	7	6	5	4

NOTE: 1. Deck Dead Load = 10 psf

**Table 4**

PHEINOX RSS 5/16 x 4"(Stainless steel)			Joist span				
			6 ft	8 ft	10 ft	12 ft	14 ft
Live load (psf)	Wood Species	Screw Shear Capacity	Screw Spacing in inches				
40	G= 0.42 / SPF	151	12	9	7	6	5
40	G = 0.50 / DF-PSL-LVL-LSV	187	14	11	8	7	6
40	G = 0.55 / SP	204	16	12	9	8	6
60	G= 0.42 / SPF	151	8	6	5	4	3
60	G = 0.50 / DF-PSL-LVL-LSV	187	10	8	6	5	4
60	G = 0.55 / SP	204	11	8	6	5	4

NOTE: 1. Deck Dead Load = 10 psf

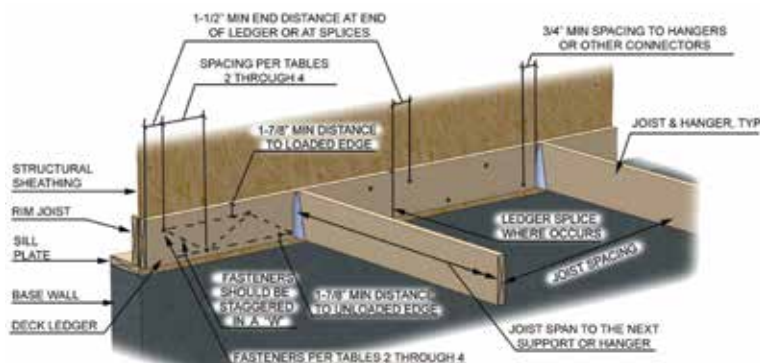
**Table 5 (wet-use in- service)**

PHEINOX RSS 5/16 x 4"(Stainless steel)			Joist span				
			6 ft	8 ft	10 ft	12 ft	14 ft
Live load (psf)	Wood Species	Screw Shear Capacity	Screw Spacing in inches/ <u>wet-use in- service</u>				
40	G= 0.42 / SPF	106	8	6	5	4	3
40	G = 0.50 / DF-PSL-LVL-LSV	131	10	7	6	5	4
40	G = 0.55 / SP	143	11	8	6	5	4
60	G= 0.42 / SPF	106	6	4	3	3	2
60	G = 0.50 / DF-PSL-LVL-LSV	131	7	5	4	3	3
60	G = 0.55 / SP	143	8	6	4	4	3

NOTE: 1. Deck Dead Load = 10 psf

## Wood Species Specific Gravities

Species	Specific Gravity (G)
Spruce-Pine Fir (SPF)	G = 0.42
Hem-Fir (HF)	G = 0.43
Douglas Fir Larch (DFL)	G = 0.50
Parallel Strand Lumber (PSL)	G = 0.50
Laminated Veneer Lumber (LVL)	G = 0.50
Laminated Strand Lumber (LSL)	G = 0.50
Southern Pine (SP)	G = 0.55





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