

Drive with Speed, Quality and Confidence



Deck building • Framing • Structural • Cabinetry • Finishing • Specialty

What Makes Us ÜberGrade?



**RECESSED
STAR DRIVE**

Drive with Speed, Quality and Confidence

Zero Stripping, with (6) points of contact

CEE THREAD™

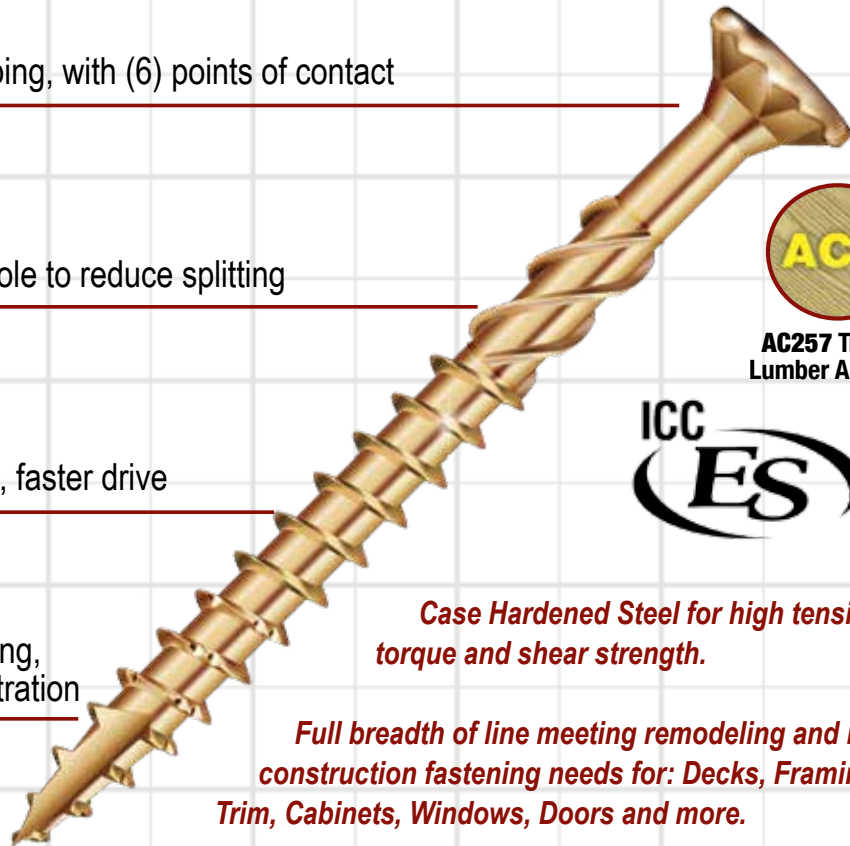
Enlarges hole to reduce splitting

W-CUT™

Low torque, faster 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- 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. 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.

Table of Contents

Fastener Selection Guide

Page 2-3

SECTION 1:

R4™ MULTI-PURPOSE FRAMING & DECKING SCREWS 4-5

SECTION 2:

RSS™ RUGGED STRUCTURAL SCREWS 6-7

SECTION 3:

FIN/TRIM™ TRIM HEAD SCREWS 8-9

SECTION 4:

RT COMPOSITE™ TRIM HEAD SCREWS 10-11

SECTION 5:

KAMELEON™ COMPOSITE DECK SCREWS 12-13

SECTION 6:

PHEINOX™ STAINLESS STEEL SCREWS

- 305 Stainless 14-15

- 316 Marine Grade Stainless 16-17

SECTION 7:

LOW PROFILE CABINET™ SCREWS 18-19

SECTION 8:

TOP STAR™ SHIM SCREWS 20-21

SECTION 9:

CALIBURN™ CONCRETE SCREWS 22-23

SECTION 10:

MSS™ METAL SIDING SCREWS 24-25

SECTION 11:

TEKS® METAL FASTENING SCREWS 26-27

SECTION 12:

CEMENT BOARD SCREWS, CBS 28-29

Star Drive Bits, Crown Bit & Magnetic bit Holder Page 30

Displays and Merchandising Units

Page 31

SECTION 13:

FASTENER TECHNICAL DATA 32-40

TECHNICAL BULLETIN 41-44

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 and Decking 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: Easy 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..*

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.

PHEINOX™ Stainless Steel Screws: For strongest corrosion resistance.
PHEINOX™ 305 Stainless Steel Screws: Ideal for use in tropical wood, around pools, hot tubs, sauna and sea-side type applications.

PHEINOX™ 316 Stainless Steel Screws- Marine Grade Stainless:
For use in critical applications where harsh conditions require fasteners that can deliver the most reliable corrosion protection.

*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 6

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 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

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 9

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 10

TEKS® Metal Fastening Screws: Pro Known. Pro Used. Pro Trusted. For use in all interior and exterior applications: metal-to-metal, metal-to-wood, and roofing. *A full line of Teks® metal fasteners are available in various lengths in handy-paks and pro-paks.*

TEKS® Roofing screws: *Roofing screw provides a waterproof self-sealing neoprene washer for a premium finish*

TEKS® Lath screws: *Lath screws feature a low profile head and premium finish ideal for any application*

TEKS® Winged screws: *Special wings on the self-tapping screws to ream a hole in wood to prevent thread engagement and fasten securely into metal*

TEKS® Self-Tapping screws: *Designed to drill, tap, and fasten all in one motion.*



SECTION 11

Cement Board Screws: Countersinking head for flush seating in cement board. Backer-On® and Rock-On® Cement Board Screws: For use in cement board attachment applications for fasteners that offer easiness to install and corrosion protection.

Cement Board Screws are available in three different lengths in handy-paks and Pro-paks for both Backer-On® and Rock-On®.

Backer-On® screws: *Cement board screws designed for attaching Hardiebacker® cement board*
Rock-On® screws: *Cement board screws designed for attached Durock®, Wonderboard® cement board*

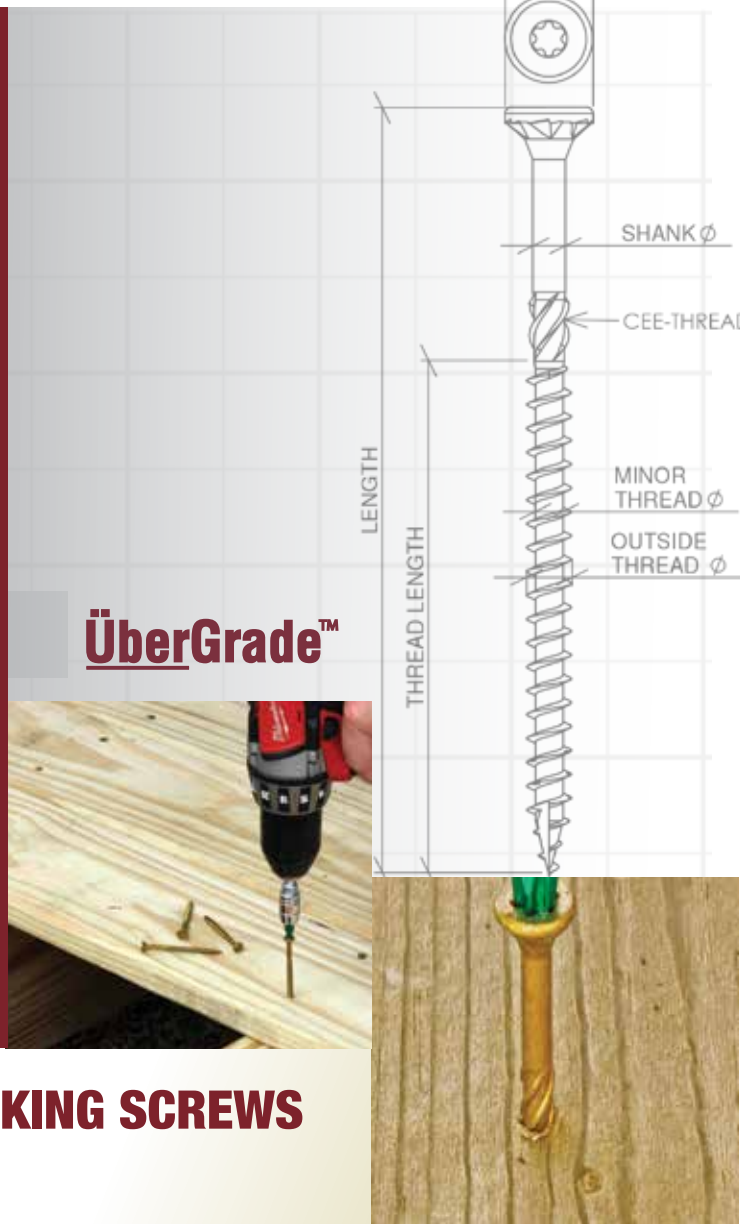


SECTION 12

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 3-1/8" 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.









R4™ MULTI-PURPOSE FRAMING & DECKING SCREWS

Frame with Ease and Confidence



- **Recessed Star Drive:** Zero Stripping, with 6 points of contact
- **CEE Thread:** Enlarges hole to reduce splitting
- **W-Cut™:** Low torque, faster 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 and 316 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	00051†	13,000				
	#6 x 1-1/2"	3.5 x 40	00055†	8,000				
	#6 x 2"	3.5 x 50	00059†	5,400				
 T-15	#8 x 1"	4.0 x 25					02067*†	S/100
	#8 x 1-1/4"	4.0 x 30	00069†	10,000	01069†	1,300	02069†	S/100
	#8 x 1-1/2"	4.0 x 40	00073†	6,500	01073†	1,000	02073†	S/100
	#8 x 1-3/4"	4.0 x 45	00075†	6,000	01075†	925	02075†	S/100
	#8 x 2"	4.0 x 50	00077	4,500	01077	850	02077	S/100
	#8 x 2-1/2"	4.0 x 63	00079	3,500	01079	650	02079	S/100
 T-25	#9 x 1-1/4"	4.5 x 30	00091†	8,000	01091†	1,000		
	#9 x 1-1/2"	4.5 x 40	00095†	5,200	01095†	820	02095†	S/100
	#9 x 1-3/4"	4.5 x 45	00097†	4,500	01097†	750		
	#9 x 2"	4.5 x 50	00099	3,700	01099	690	02099	M/100
	#9 x 2-1/2"	4.5 x 63	00101	2,900	01101	575	02101	M/100
	#9 x 2-3/4"	4.5 x 70	00103	2,000	01103	480	02103	M/100
 T-25	#9 x 3-1/8"	4.5 x 80	00105	1,900	01105	425	02105	M/100
	#10 x 1-1/2"	5.0 x 40	00127†	4,700				
	#10 x 2"	5.0 x 50	00131	3,200				
	#10 x 2-1/2"	5.0 x 63	00133	2,500	01133	470	02133	M/100
	#10 x 2-3/4"	5.0 x 70	00135	2,000	01135	395		
	#10 x 3-1/8"	5.0 x 80	00137	1,500	01137	350	02137	M/100
	#10 x 3-1/2"	5.0 x 90	00139	1,200	01139	300	02139	M/50
 T-25	#10 x 4"	5.0 x 100	00141	1,000	01141	270	02141	M/50
	#10 x 4-3/4"	5.0 x 120	00143	800	01143	230	02143	M/50
	#12/14 x 4"	6.0 x 100	00165	800				
	#12/14 x 4-3/4"	6.0 x 120	00169	700			02169	M/50
	#12/14 x 5-5/8"	6.0 x 140	00173	600			02173	M/50
	#12/14 x 6-3/8"	6.0 x 160	00177	1,000			02177	9/50
	#12/14 x 7-1/4"	6.0 x 180	00179	1,000				
 T-25	#12/14 x 8"	6.0 x 200	00181	500			02181	9/50
	#12/14 x 10"	6.0 x 250					02187	12/50
	#12/14 x 12"	6.0 x 300					02193	12/50



Some sizes available in **PHEINOX™** hardened Stainless Steel; refer to Section 6. 2" bit included in Pro-Paks. 1" bit w/Handy-Paks.
*Does not come with the Zip-Tip™ feature. †Does not have the added CEE-THREAD™ feature.

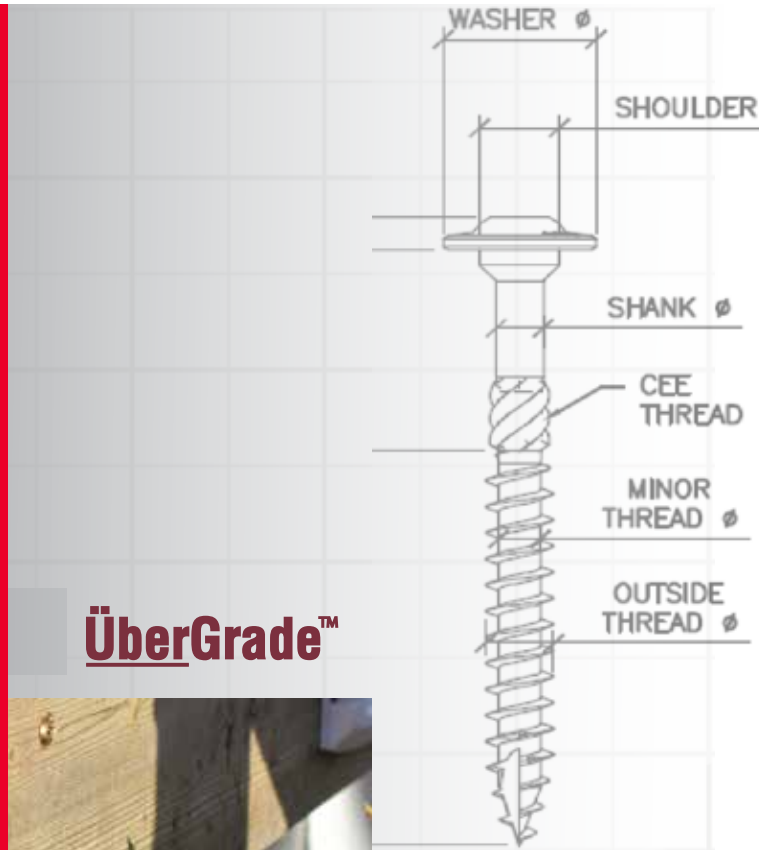
NOTE: Pro-Paks need to be ordered in multiples of two.

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



ÜberGrade™



RSS™ RUGGED STRUCTURAL SCREWS

Easy Lag Bolt Alternative with Immense Drawing Power



- **Recessed Star Drive:** Zero Stripping, with 6 points of contact
- **CEE Thread:** Enlarges hole to reduce splitting
- **W-Cut™:** Low torque, faster 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 and 316 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.
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T-25

#10 x 1-1/2"	5.0 x 40	10127*†	2,300			12127*†	S/50
#10 x 2"	5.0 x 50	10131*†	1,600			12131*†	S/50
#10 x 2-1/2"	5.0 x 63	10133†	1,000			12133†	M/50
#10 x 2-3/4"	5.0 x 70	10135†	1,000				
#10 x 3-1/8"	5.0 x 80	10137	800	11137	236	12137	M/50



T-25

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



T-30

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



T-40

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

RSS™ JTS - JOIST AND TRUSS SCREW



T-25

1/4" x 5"	6.3 x 127					93735	9/50
1/4" x 6-3/4"	6.3 x 171	91743	300			93743	9/50

RSS™ MINI HANDY-PAK

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

RSS™ INDIVIDUALLY TAGGED

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

Some sizes available in **PHEINOX™** hardened Stainless Steel; refer to Section 6.
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 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, faster 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.
- Available in **Climatek™** or white finish.
- Also available in **PHEINOX™** 305 and 316 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.
#8 x 1-1/4"	4.0 x 30			16720	995	17720	S/100
#8 x 1-1/2"	4.0 x 40	15724	6,500	16724	915	17724	S/100
#8 x 2"	4.0 x 50	15728	4,500	16728	725	17728	S/100
#8 x 2-1/2"	4.0 x 63	15730	3,500	16730	605	17730	S/100
#8 x 2-3/4"	4.0 x 70					17732	S/100
#8 x 3-1/8"	4.0 x 80	15734	2,500	16734	514	17734	M/100
#9 x 4"	4.5 x 100	15760	1,000			17760	M/50
#9 x 5"	4.5 x 125	15766	800			17766	M/50
WHITE FIN / TRIM™							
#8 x 2"	4.0 x 50			16828	605	17828	S/100
#8 x 2-1/2"	4.0 x 63			16830	505	17830	S/100

Some sizes available in **PHEINOX™** hardened Stainless Steel; refer to Section 6

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

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

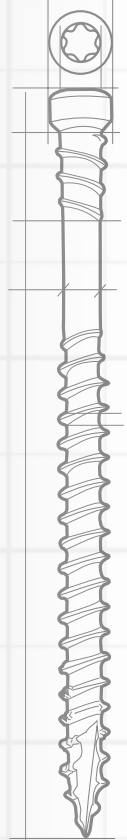


GRK has modified its innovative FIN/Trim™ Head screw to include reverse threading under the head of the fastener. This technology makes the RT Composite™ Trim Screw ideal for use in composite and cellular PVC trim.

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, faster 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 and 316 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	15077	4,500	16077	725	17077	S/100
	#8 x 2-1/2"	4.0 x 63	15079	3,500	16079	605	17079	S/100
	#8 x 3-1/8"	4.0 x 80	15083	2,500	16083	514	17083	M/100
 T-15	#9 x 2-1/2"	4.5 x 63	15101	2,900	16101	408		
	#9 x 3-1/8"	4.5 x 80	15105	1,900	16105	348	17105	M/100
WHITE RT COMPOSITE™								
 T-10	#8 x 2"	4.0 x 50			16628	605	17628	S/100
	#8 x 2-1/2"	4.0 x 63	15630	3,500	16630	505	17630	S/100
	#8 x 2-3/4"	4.0 x 70			16632	450	17632	S/100
	#8 x 3-1/8"	4.0 x 80					17634	M/100

Some sizes available in **PHEINOX™** hardened Stainless Steel; refer to Section 6

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

Supreme Drawing Power
is perfect for trimwork and
deck construction.



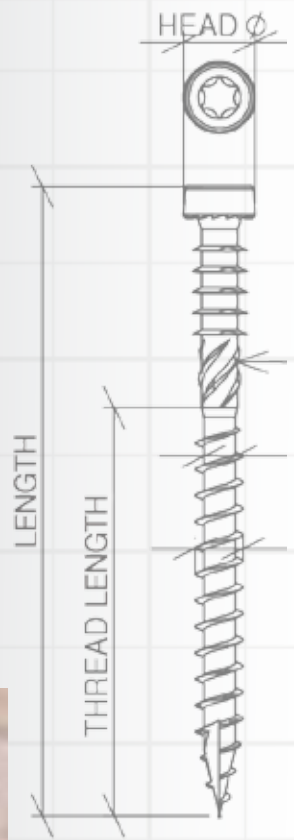
GRK's Kameleon™ screws are an excellent choice for composite and PVC decking applications. The underhead has saw-blade like cutting teeth that cut a perfectly clean hole into the decking.

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, faster 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	65151	2,900	66151	510		
Tan	#9 x 2-1/2"	4.5 x 63	65155	2,900	66155	510		
Brown	#9 x 2-1/2"	4.5 x 63	65158	2,900	66158	510	N/A	N/A
Redwood	#9 x 2-1/2"	4.5 x 63	65159	2,900	66159	510		
Grey	#9 x 2-3/4"	4.5 x 70	65171	2,000	66171	420		
Tan	#9 x 2-3/4"	4.5 x 70	65175	2,000	66175	420		
Brown	#9 x 2-3/4"	4.5 x 70	65178	2,000	66178	420	N/A	N/A
Redwood	#9 x 2-3/4"	4.5 x 70	65179	2,000	66179	420		

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

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.

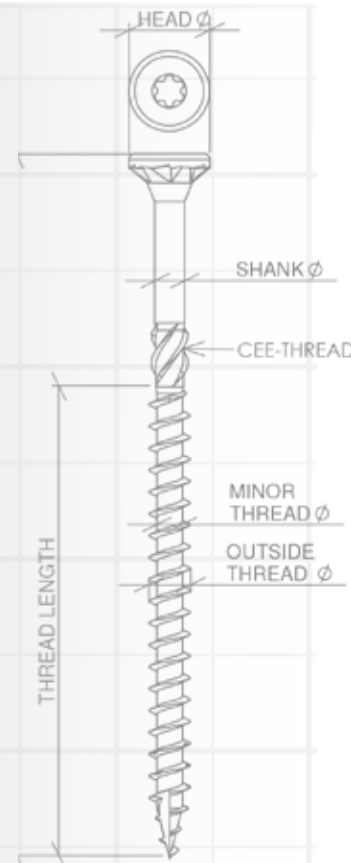


PHEINOX™ stainless steel screws are made from only the best grade of stainless steel wire, 305. The unique characteristics of the *PHEINOX™* wire give our stainless steel screws unmatched performance, by maximizing both torque and increasing bending strength.

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™* 305 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, cedar and wet environments such as lakes, pools, decks 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.
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R4™ SCREWS : PHEINOX™ 305

 T-15	#8 x 1-1/2"	4.0 x 40			26073†	857	
 T-25	#9 x 2"	4.5 x 50	25099	4,000	26099	609	
 T-25	#10 x 2-1/2"	5.0 x 63	25133	2,500	26133	425	27133 M/100
	#10 x 2-3/4"	5.0 x 70			26135	350	
	#10 x 3-1/8"	5.0 x 80	25137	1,500	26137	305	27137 M/100
	#10 x 4"	5.0 x 100			26141	247	

RSS™ SCREWS: PHEINOX™ 305

 T-25	1/4" x 1-1/2"	6.0 x 40	30151*†	1,000			
	1/4" x 2"	6.0 x 50	30155*†	800			
	1/4" x 2-1/2"	6.0 x 63	30157†	700			
 T-30	5/16" x 2-1/2"	7.0 x 63	30217†	600			
	5/16" x 3-1/8"	7.0 x 80	30221	500		32221	12/100
	5/16" x 4"	7.0 x 100	30225	400		32225	12/100
	5/16" x 5-1/8"	7.0 x 130	30231	300			
	5/16" x 6"	7.0 x 150	30235	300		32235	9/50

RT COMPOSITE™ TRIM SCREWS: PHEINOX™ 305

 T-10	#8 x 2"	4.0 x 50			36077	600	
	#8 x 2-1/2"	4.0 x 63	35079	3,500	36079	560	37079 S/100
	#8 x 3-1/8"	4.0 x 80			36083	385	
 T-15	#9 x 2-1/2"	4.5 x 63	35101	2,900	36101	365	
	#9 x 3-1/8"	4.5 x 80			36105	275	
 T-10	#8 x 2" White Hd.	4.0 x 50	35628	4,500			
	#8 x 2-1/2" White Hd.	4.0 x 63			36630	500	

FIN / TRIM™ SCREWS: PHEINOX™ 305

 T-10	#8 x 1-1/2"	4.0 x 40					37724 S/100
	#8 x 2"	4.0 x 50	35728	4,500	36728	600	37728 S/100
	#8 x 2-1/2"	4.0 x 63	35730	3,500	36730	560	37730 S/100
	#8 x 3-1/8"	4.0 x 80			36734	385	37734 M/100
 T-15	#9 x 2-1/2"	4.5 x 63			36752	365	
	#9 x 3-1/8"	4.5 x 80			36756	275	

CABINET™ SCREWS: PHEINOX™ 305

 T-15	#8 x 1-1/4"	4.0 x 30	30069	4,000			
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2" bit included in Pro-Paks. 1" bit with Handy-Paks.

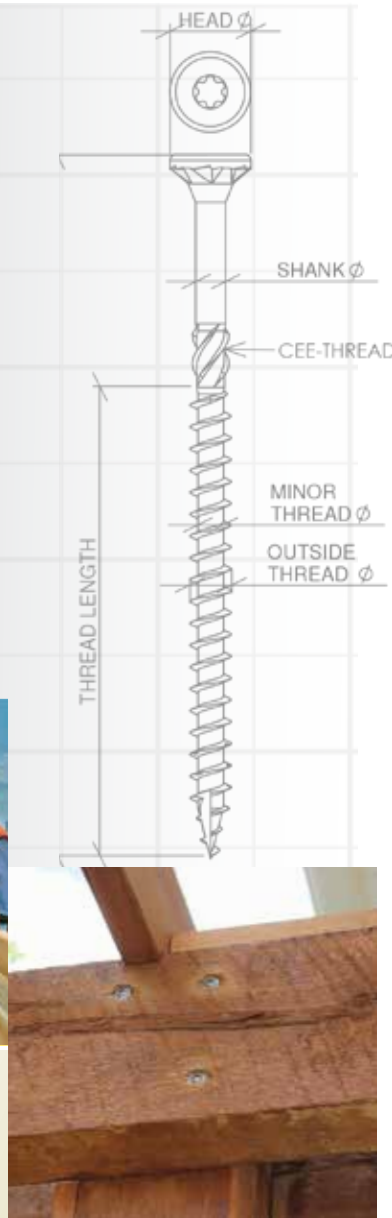
*Does not come with the Zip-Tip™ feature. †Does not have the added CEE-THREAD™ feature.

PHEINOX™ stainless steel screws are made from only the best grade of stainless steel wire, 316. The unique characteristics of the *PHEINOX™* 316 wire give our stainless steel screws unmatched performance, by maximizing both torque and increasing bending strength.

GRK's patented fastener lineup is available in a wide range of our structural, framing and interior screw varieties and are engineered to deliver exceptional and lasting performance.

The NEW *PHEINOX™* 316 stainless steel screws will provide the ultimate anti-corrosion, all-weather protection everywhere and anywhere you need a fastening solution that's impervious to the elements!

ÜberGrade™



PHEINOX™ 316 STAINLESS STEEL SCREWS

Marine Grade Protection for Superior Corrosion Resistance



**AC257 Treated
Lumber Approved**

- **316 grade stainless steel** for a superior interior / exterior corrosion resistance.
- **Marine grade protection-** for coastal, seacoast, or salt water.
- **Recessed Star Drive-** Zero stripping, with 6 points of contact.
- **CEE Thread™**- enlarges hole to reduce splitting.
- **W-Cut™**- Low torque, faster drive.
- **ZIP-TIP™**- No pre-drilling, faster penetration.
- Available in a wide range of sizes and types of GRK Fasteners.
- For use in critical applications where harsh conditions require fasteners that can deliver the most reliable corrosion protection.

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.
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R4™ SCREWS: PHEINOX™ 316

T-25

#10 x 2-1/2"	5.0 x 63	35133	2,500	36133	425	37133	M/100
#10 x 3-1/8"	5.0 x 80	35137	1,500	36137	305	37137	M/100

RSS™ SCREWS: PHEINOX™ 316

T-30

5/16" x 2-1/2"	7.0 x 63	40217†	600				
5/16" x 3-1/8"	7.0 x 80	40221	500			42221	12/100
5/16" x 4"	7.0 x 100	40225	400			42225	12/100
5/16" x 5-1/8"	7.0 x 130	40231	300				
5/16" x 6"	7.0 x 150	40235	300			42235	9/50

FIN / TRIM™ SCREWS: PHEINOX™ 316

T-10

#8 x 2"	4.0 x 50	45728	4,500	46728	600	47728	S/100
#8 x 2-1/2"	4.0 x 63	45730	3,500	46730	560	47730	S/100

RT COMPOSITE™ TRIM SCREWS: PHEINOX™ 316

T-10

#8 x 2"	4.0 x 50			46077	600	47077	S/100
#8 x 2-1/2"	4.0 x 63	45079	3,500	46079	560	47079	S/100

RSS™ PHEINOX™ 316 MINI HANDY-PAK

T-30

U.S. (Std.)Size (Dia.x Length)	Metric Size (Dia.x Length)	Part No.	Quantity
5/16" x 2-1/2"	7.0 x 63	44217†	M/25
5/16" x 3-1/8"	7.0 x 80	44221	M/25
5/16" x 4"	7.0 x 100	44225	M/25
5/16" x 5-1/8"	7.0 x 130	44231	M/20
5/16" x 6"	7.0 x 150	44235	M/20

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

*Does not come with the Zip-Tip™ feature. †Does not have the added CEE-THREAD™ feature.



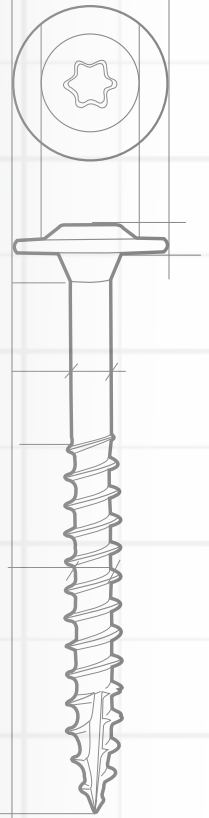
GRK's Cabinet™ screws are designed specifically for use in cabinet construction and installation. Cabinet™ screws are manufactured in a #8 gauge (4 mm) diameter for universal size convenience.

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.

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 sticker covers. 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, faster 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 1-1/4"	4.0 x 30	10069	4,000	11069	1085	12069	S/100
#8 x 1-1/2"	4.0 x 40	10073	3,000	11073	930	12073	M/100
#8 x 1-3/4"	4.0 x 45	10075	2,000			12075	M/100
#8 x 2"	4.0 x 50	10077	2,000	11077	650	12077	M/100
#8 x 2-1/2"	4.0 x 63	10079	1,500	11079	563	12079	M/100
#8 x 2-3/4"	4.0 x 70					12081	M/100
#8 x 3-1/8"	4.0 x 80	10083	1,000	11083	400	12083	M/50

T-15

WHITE LOW PROFILE™ CABINET SCREWS

#8 x 1-1/4"	4.0 x 30					120680	M/80
#8 x 1-1/2"	4.0 x 40					120670	M/80
#8 x 2-1/2"	4.0 x 63					120660	M/80

T-15

Some sizes available in **PHEINOX™** hardened Stainless Steel; refer to Section 6
NOTE: Pro-Paks need to be ordered in multiples of two. 2" bit included in Pro-Paks.



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

GRK's adjustable Top Star™ 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.

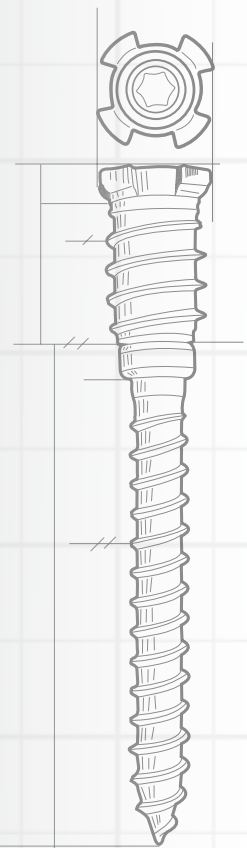
Our product is suited to meet the needs of both professional contractors and weekend warriors making the job easier for one person.

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	20157	100		
3/8" x 3-1/8"	6.0 x 80	20161	100		
CROWN / BIT					
 Includes: (1) Crown / Bit with each				86465	1

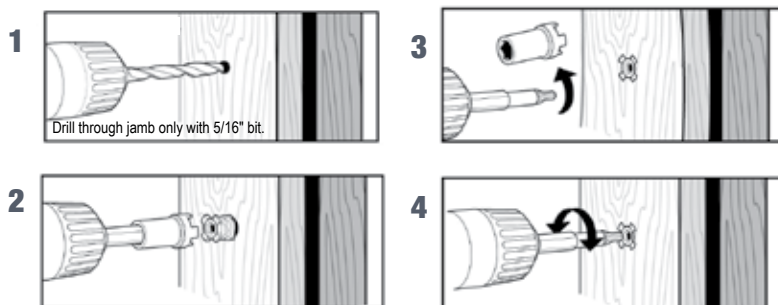
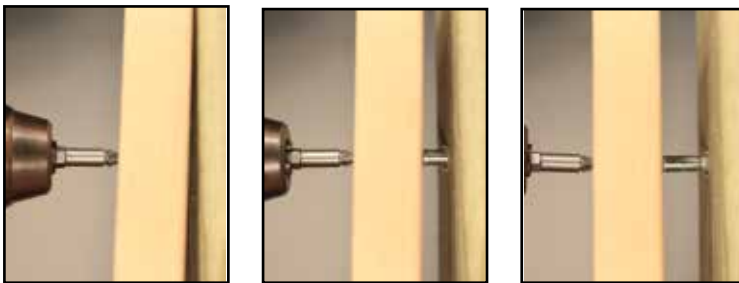
NOTE: Crown and Star bit system included in each bulk box.
5/16" drill bit not included.

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:

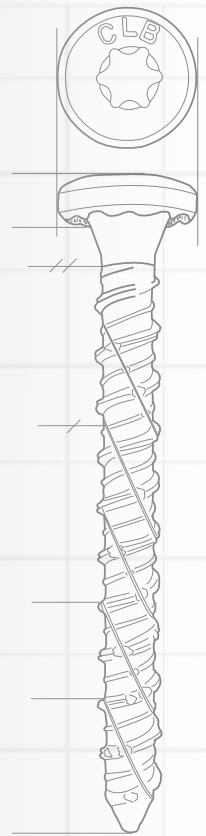
BIT CROWN THREADED SLEEVE



Calburn™ 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. Calburn™, Calburn™ PH and Calburn™ XL are Climatek™ coated for high corrosion resistance.

Calburn'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.
- **Calburn™ PH** pan head, which is ideal for an exposed finished look including installation of electrical boxes.
- **Calburn™ 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	1,000	N/A	N/A	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			N/A	N/A	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	400	N/A	N/A	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

1" bit included in Handy-Paks



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



Decorative Pan Head

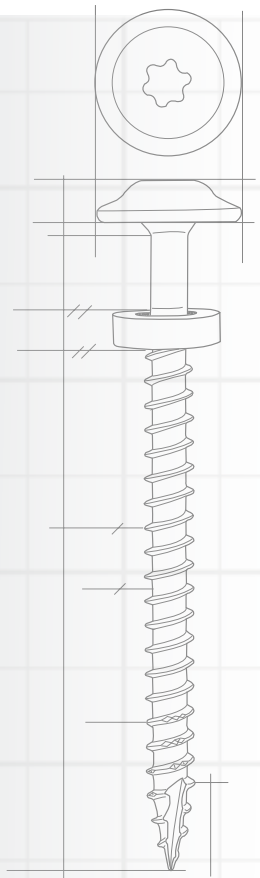
Washer Head

Countersinking Head

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 1-1/2"	4.5 x 40	40090	3,000			44090	M/100
#9 x 2"	4.5 x 50	40120	2,000	N/A	N/A		

1" bit included in Handy-Paks

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



TEKS® metal fasteners were developed and launched as the first self-drilling metal screw with over 50 years of experience. There is a wide variety of head styles to cover all interior and exterior applications on metal-to-metal, metal-to-wood, and roofing.

No tool slippage or cam-outs even with older sockets and worn bits. TEKS® screws can drill, tap, and fasten in one motion. Lastly, long life finishes mean no streaking from corrosion.

Teks®



TEKS® METAL FASTENERS

Pro Known. Pro Used. Pro Trusted.

- **High performance, precise drive surface and recess:** Reduces cam-outs to prevent slipping during installation.
- **Precise point:** Designed to drill, tap, and fasten all in one motion.
- **Threading:** Allows for less effort needed to fasten through material.
- **Special finishes:** Protect the job's appearance with long lasting corrosion resistant coatings.
- **Special wings:** Self-Tapping Screws ream a hole in the wood to prevent thread engagement and fasten securely into metal.
- **Self-sealing neoprene washer:** Unique Roofing Screws provide a waterproof seal for a premium finish.
- **Low profile head:** Lath Screws feature a premium finish that is ideal for virtually any application.

U.S. (Std.) Size (Dia. x Length)	Metric Size (Dia. x Length)	Pro-Pak Part No.	Pro-Pak Pail Qty.	Handy-Pak Part No.	Handy-Pak Ctn. Size/Qty.
TEKS® SELF-TAPPING SCREWS					
HEX WASHER HEAD / DRILL POINT (METAL TO METAL)					
8 x 1/2"	4.0 x 12.7			21308	S/280
8 x 3/4"	4.0 x 19.1			21312	S/180
8 x 1"	4.0 x 25.4			21316	S/170
8/18 x 2-1/2"	4.0 x 63.5			21800	S/280
10 x 5/8"	5.0 x 15.9			21396	S/170
10 x 3/4"	5.0 x 19.1	21322	450	21320	S/150
10 x 1"	5.0 x 25.4			21328	M/140
10 x 1-1/2"	5.0 x 38.1			21332	M/90
10/16 x 3/4"	5.0 x 19.1			21806	S/150
10/16 x 1"	5.0 x 25.4			21808	S/140
10/16 x 1-1/2"	5.0 x 38.1			21810	S/90
12 x 3/4"	6.0 x 19.1			21336	M/120
12 x 1"	6.0 x 25.4	21341	400	21340	M/100
12 x 1-1/2"	6.0 x 38.1			21344	M/80
12 x 2"	6.0 x 50.8			21348	M/60
12/14 x 1"	6.0 x 25.4			21816	M/100
12/14 x 2"	6.0 x 50.8			21820	M/60
14 x 3/4"	7.0 x 19.1			21349	S/100
14 x 1"	7.0 x 25.4			21351	S/60
14 x 1-1/2"	7.0 x 38.1			21352	M/50
14 x 2-1/2"	7.0 x 63.5	21358	120	21356	M/30
1/4-14 x 1"	6.3 x 25.4			21824	S/60
HEX WASHER HEAD / SHARP POINT (METAL TO METAL)					
6 x 1/2"	3.5 x 12.7			21301	S/320
6 x 3/4"	3.5 x 19.1			21302	S/200
7 x 1/2"	3.8 x 12.7			21305	S/310
7 x 3/4"	3.8 x 19.1			21390	S/190
8 x 1/2"	4.0 x 12.7			21310	S/300
8 x 3/4"	4.0 x 19.1			21314	S/180
8 x 1-1/2"	4.0 x 38.1			21318	M/85
8 x 2"	4.0 x 50.8			21319	M/60
10 x 3/4"	5.0 x 19.1			21327	M/150
PAN HEAD / DRILL POINT (METAL TO METAL)					
8 x 1/2"	4.0 x 12.7			21360	S/300
8 x 3/4"	4.0 x 19.1			21364	S/240
10 x 3/4"	5.0 x 19.1			21372	S/170
10/16 x 3/4"	5.0 x 19.1			21870	M/170
PAN HEAD / SHARP POINT (METAL TO METAL)					
6 x 1/2"	3.5 x 12.7			21359	S/300
PANCAKE HEAD / DRILL POINT (METAL TO METAL)					
10 x 5/8"	5.0 x 15.9			21376	S/190
PHILLIPS WAFER HEAD / DRILL POINT W/REAMER WINGS (WOOD TO METAL)					
1/4-20 x 3"	6.3 x 76.2			21378	M/40
10 x 1-7/16"	5.0 x 11.1	21381	300	21380	S/100
12 x 2-3/4"	6.0 x 69.9	21386	200	21384	S/40

U.S. (Std.) Size (Dia. x Length)	Metric Size (Dia. x Length)	Pro-Pak Part No.	Pro-Pak Pail Qty.	Handy-Pak Part No.	Handy-Pak Ctn. Size/Qty.
TEKS® ROOFING SCREWS					
HEX WASHER HEAD / SHARP POINT (METAL TO WOOD)					
9 x 1"	4.5 x 25.4	21401	360	21400	M/120
9 x 1-1/2"	4.5 x 38.1	21406	400	21404	M/100
9 x 2-1/2"	4.5 x 63.5			21407	M/60
HEX WASHER HEAD / DRILL POINT (METAL TO METAL)					
12 x 3/4"	6.0 x 19.1			21408	M/90
12 x 1"	6.0 x 25.4	21418	400	21412	M/80
12 x 1-1/2"	6.0 x 38.1	21422	300		
12 x 2"	6.0 x 50.8	21427	150	21416	M/50
TEKS® LATH SCREWS					
MODIFIED TRUSS HEAD / SHARP POINT (METAL TO METAL)					
8 x 1/2"	4.0 x 12.7			21500	S/260
8 x 3/4"	4.0 x 19.1	21506	600	21504	S/200
8 x 1"	4.0 x 25.4	21510	398	21508	S/170
8 x 1-1/4"	4.0 x 31.8			21512	M/140
8 x 1-5/8"	4.0 x 41.3			21516	M/120
8 x 2"	4.0 x 50.8			21518	M/100
8 x 2-1/2"	4.0 x 63.5			21519	M/80
MODIFIED TRUSS HEAD / DRILL POINT (METAL TO METAL)					
8 x 1/2"	4.0 x 12.7			21520	S/260
8 x 3/4"	4.0 x 19.1	21525	600	21524	S/200
8 x 1"	4.0 x 25.4	21530	510	21528	S/170
8 x 1-1/4"	4.0 x 31.8			21532	M/140
8 x 1-5/8"	4.0 x 41.3			21536	M/120
8 x 2"	4.0 x 50.8			21538	M/100
8 x 2-1/2"	4.0 x 63.5			21540	M/80

Pro-Paks and Handy-Paks must be ordered in eaches but in Master Carton Quantities.



Hex Washer Head



Wafer Head

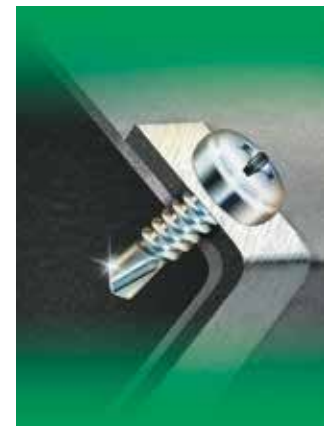
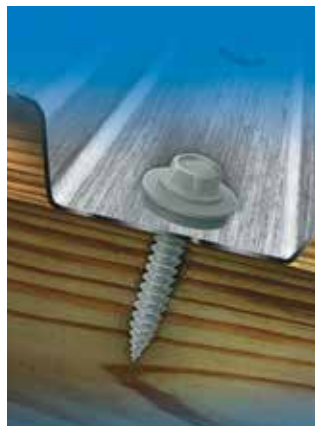


Pan Head



Hex Washer Head with Serrations

©2010 TEK SYSTEMS, INC.



Backer-On® cement screws are designed for attaching Hardiebacker cement board and Rock-On® cement board screws are designed for attaching Durock cement board to wood or light gauge steel studs. The new patented serrated head design countersinks for flush seating even at an angle, providing for smooth surface for tile. The Star drive recess with T-25 bit provides Stikfit for one-handed installation. Backer-On® and Rock-On® screws feature a Climacoat corrosion resistant finish that prevents rust from bleeding into grout and are perfect for use in high moisture areas such as baths, showers, countertops, and floors.

Backer-On® and Rock-On® cement board screw comply with ANSI standards for cement board installation as specified by cement board manufacturers. Cement board manufacturers require ANSI compliance in order to remain eligible for warranty.

Standard roofing nails, drywall screws, and other alternatives to cement board screws are typically not specified by cement board manufacturers and not ANSI compliant.

ROCK-ON®
BACKER-ON®

CEMENT BOARD SCREWS

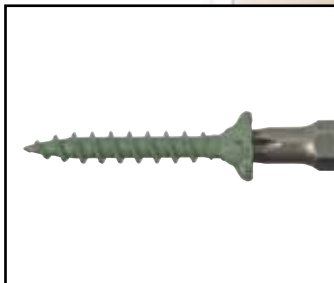
ROCK-ON® / BACKER-ON® Patented Serrated Head for Flush Seating



- **Serrated head design:** for flush seating even at an angle.
- **Star drive with T-25 bit:** provides Stikfit for easy one-handed installation and eliminates cam-outs.
- **Single lead thread:** Backer-On® feature starts quickly in wood fiber dense board material.
- **Hi-Lo thread:** Rock-On® starts quickly in wood fiber dense board material.
- **Sharp point:** Offers immediate pick-up and eliminates the need to pre-drill.
- **Climacoat finish:** Corrosion resistance that prevents unsightly rust from bleeding into tile.
- Available in a 3 different lengths in small packs and contractor buckets.

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.
BACKER-ON® SCREWS							
#9 x 1-1/4"	4.5 x 32			23406	750	23401	M/185
#9 x 1-5/8"	4.5 x 42	N/A	N/A	23416	575	23411	M/140
#9 x 2-1/4"	4.5 x 57					23421	M/100
ROCK-ON® SCREWS							
#9 x 1-1/4"	4.5 x 32			23306	750	23301	M/185
#9 x 1-5/8"	4.5 x 42	N/A	N/A	23316	575	23311	M/140
#9 x 2-1/4"	4.5 x 57					23321	M/100

2" T25 Star Drive bit included in Backer-On and Rock-On handy-paks and Pro-paks.



Star Drive Bits, Crown / Bit and Magnetic Bit Holder



Part No.
88492



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		86419	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	86427	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	86435	25	87433	2
T-20 2"	purple				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"	86443	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",	86451	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"	86459	25	187459	2
CROWN / BIT						
		TOP STAR™			86465	1
STAR DRIVE BIT KIT with Quick Change Adaptor						
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:

GRK# 89001-GRK

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:

GRK# 99900

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



FASTENER TECHNICAL DATA

RSS™

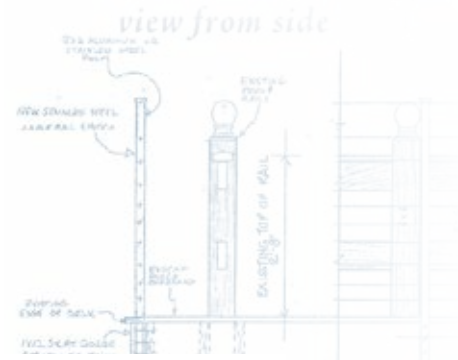


TABLE 1—RSS™ FASTENER SPECIFICATIONS

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

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

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

²Length of thread includes tip. See Figure 1.

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

⁴See Figure 1 for additional dimensional information.



RSS™

TABLE 2—RSS™ REFERENCE WITHDRAWAL (W) AND PULL-THROUGH (P) DESIGN VALUES¹

FASTENER DESIGNATION	THREAD LENGTH (inches)	W (lbf/in.) ²		P (lbf) ³		WET SERVICE FACTOR, C _M	
		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	1/4 x 2 1/2"	151	186	165	275	0.70	
	1/4 x 2 3/4"						
	1/4 x 3 1/8"						
	1/4 x 3 1/2"						
	5/16 x 2 1/2"	165	227	207	418		
	5/16 x 2 3/4"						
	5/16 x 3 1/8"						
	5/16 x 3 1/2"						
	5/16 x 4"						
	5/16 x 5 1/8"						
	5/16 x 6"						
	3/8 x 3 1/8"						180
	3/8 x 4"						
	3/8 x 5 1/8"						
	3/8 x 6"						
	3/8 x 7 1/4"						
3/8 x 8"							
3/8 x 10"							
3/8 x 12"							
3/8 x 14 1/8"							
3/8 x 16"							
LPS	1/4 x 8"	2 7/8	128	201	136	395	0.52
LTF	3/8 x 8"	3 7/8	163	216	202	373	0.70
	3/8 x 10"	3 7/8					
	3/8 x 12"	3 7/8					
PHEinox	1/4 x 2 1/2"	1 1/2	134	187	162	306	0.70
	1/4 x 3 1/8"	2					
	5/16 x 2 1/2"	1 5/8	136	202	199	254	
	5/16 x 3 1/8"	2 1/8					
	5/16 x 4"	2 1/2					
	5/16 x 5 1/8"	3 3/8					
5/16 x 6"	3 7/8						
JTS	1/4 x 3 3/8"	1 3/8	152	191	154	372	0.68
	1/4 x 5"	1 5/8					
	1/4 x 6 3/4"	1 1/2					

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

¹Values 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.

²Tabulated 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.

³Tabulated 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.



RSS™ FASTENER TECHNICAL DATA

TABLE 3—RSS™ REFERENCE LATERAL DESIGN VALUES (Z) FOR SINGLE SHEAR (TWO-MEMBER) CONNECTIONS¹
 [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 _w	
			0.42 ≤ G < 0.55		0.55 ≤ G < 0.67			
			Parallel to Grain, Z _∥	Perpendicular to Grain, Z _⊥	Parallel to Grain, Z _∥	Perpendicular to Grain, Z _⊥		
RSS	1/4 x 2 1/2"	3/4	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	168	133	214		178
	5/16 x 2 1/2"	3/4	1 5/8					
	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	239	236	333		257
	5/16 x 4"	1 1/2	2 3/8					
	5/16 x 5 1/8"	1 1/2	3 1/2	265	299	472		289
	5/16 x 6"	2	3 7/8					
	3/8 x 3 1/8"	3/4	2 3/8					
	3/8 x 4"	1 1/2	2 3/8					
	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					
	3/8 x 8"	3 1/2	4 3/8	423	291	593		304
	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	249	257	358	219	0.62	
LTF	3/8 x 8"	4	433	315	556	402	0.70	
	3/8 x 10"	6						
	3/8 x 12"	8						
PHEInox	1/4 x 2 1/2"	3/4	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	151	149	181	175		
	5/16 x 3 1/8"	3/4						2 3/8
	5/16 x 4"	1 1/2	249	229	337	272		
	5/16 x 5 1/8"	1 1/2						3 5/8
5/16 x 6"	2	302	340	449	358			
JTS	1/4 x 3 3/8"	1 3/4	157	168	217	217	0.70	
	1/4 x 5"	1 3/4	168	221	241	237		
	1/4 x 6 3/4"	1 3/4						5

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

¹Values 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.

FASTENER TECHNICAL DATA

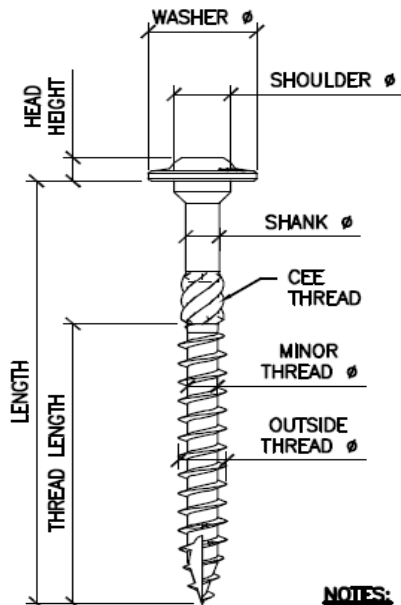
RSS™

TABLE 4 - CONNECTION GEOMETRY

CONNECTION GEOMETRY / CRITERIA	DIAMETERS ¹	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	1 1/8	1 1/4	1 3/8

For SI: 1 inch = 25.4 mm

¹ Diameter is the shank diameter as specified in Table 1.



SCREW TYPE	HEAD STAMP	WASHER Ø ± 0.020	HEAD HEIGHT ± 0.010	SHOULDER Ø ± 0.010	CEE THREAD ²
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



FASTENER TECHNICAL DATA

R4™, Trim™, Kameleon™



TABLE 1A—CARBON STEEL FASTENER SPECIFICATIONS

FASTENER DESIGNATION	OVERALL LENGTH ¹ (inches)	THREAD LENGTH ² (inches)	HEAD DIAMETER (inch)	HEAD RECESS	ROOT DIAMETER (inch)	SHANK DIAMETER (inch)	OUTSIDE THREAD DIAMETER (inch)	SPECIFIED BENDING YIELD STRENGTH ³ F _y (psi)	ALLOWABLE STEEL STRENGTH		
									Tensile (lbf)	Shear (lbf)	
R4	9x2"	2	1 1/4	0.329	Star drive T-25	0.112	0.128	0.173	158800	627	428
	9x2 1/2"	2 1/2	1 1/2								
	9x2 3/4"	2 3/4	1 3/4								
	9x3 1/2"	3 1/2	2 1/2	0.368	Star drive T-25	0.124	0.142	0.193	143590	846	542
	10x2 1/2"	2 1/2	1 1/2								
	10x3 1/8"	3 1/8	2 1/8								
	10x3 1/2"	3 1/2	2 1/2								
	10x4"	3 1/2	2 1/2								
	10x4 1/4"	4 1/4	3								
	12x2 1/2"	2 1/2	1 1/2	0.439	Star drive T-25	0.148	0.171	0.234	134280	1134	655
	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 1/2								
	12x4"	3 1/2	2 1/2								
	12x4 1/4"	4 1/4	3								
12x5 1/8"	5 1/8	3									
12x6 1/4"	6 1/4	3									
12x7 1/4"	7	3									
12x8"	7 1/2	3									
12x10"	9 1/2	3									
12x12"	11 1/2	3									
TRIM	8x2 1/2"	2 1/2	1 1/2	0.197	Star drive T-10	0.100	0.111	0.156	148410	499	360
	8x2 3/4"	2 3/4	1 3/4								
	8x3 1/8"	3 1/8	2 1/8	0.230	Star drive T-15	0.112	0.128	0.175	147280	576	425
	9x2 1/2"	2 1/2	1 1/2								
	9x3 1/2"	3 1/2	2 1/2								
KAMELEON	9x2 1/2"	2 1/2	1 1/2	0.258	Star drive T-20	0.112	0.134	0.173	160210	634	437
	9x2 3/4"	2 3/4	1 3/4								
	9x3"	3	1 3/4								

TABLE 1B—PHEINOX™ FASTENER SPECIFICATIONS

FASTENER DESIGNATION	OVERALL LENGTH ¹ (inches)	THREAD LENGTH ² (inches)	HEAD DIAMETER (inch)	DRIVER SIZE	ROOT DIAMETER (inch)	SHANK DIAMETER (inch)	OUTSIDE THREAD DIAMETER (inch)	SPECIFIED BENDING YIELD STRENGTH ³ F _y (psi)	ALLOWABLE STEEL STRENGTH		
									Tensile (lbf)	Shear (lbf)	
R4	9x2"	2	1 1/4	0.329	Star drive T-25	0.112	0.128	0.173	113340	467	334
	10x2 1/2"	2 1/2	1 1/2	0.368	Star drive T-25	0.124	0.142	0.193	170220	490	424
	10x2 3/4"	2 3/4	1 3/4								
	10x3 1/8"	3 1/8	2 1/8								
	10x4"	3 1/2	2 1/2	0.439	Star drive T-25	0.148	0.171	0.234	159920	681	507
	12x2 1/2"	2 1/2	1 1/2								
	12x3 1/8"	3 1/8	2 1/8								
12x4"	3 1/2	2 1/2									
12x4 1/4"	4 1/4	3									
TRIM	8x2 1/2"	2 1/2	1 1/2	0.197	Star drive T-10	0.100	0.111	0.156	117540	350	267
	8x2 3/4"	2 3/4	1 3/4								
	8x3 1/8"	3 1/8	2 1/8	0.230	Star drive T-15	0.112	0.128	0.175	66340	394	319
	9x2 1/2"	2 1/2	1 1/2								
	9x3 1/2"	3 1/2	2 1/2								

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

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

²Length of thread includes tip. See detailed illustrations in Figure 1.

³Bending yield strength determined in accordance with ASTM F1575 using the root diameter.



FASTENER TECHNICAL DATA

R4™, Trim™, Kameleon™

TABLE 2A—CLIMATEK™ COATED FASTENER REFERENCE WITHDRAWAL DESIGN VALUES (W)^{1,2}

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

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

Pilot hole requirements:
70% of the root diameter of the screw
For SI: 1 inch = 25.4 mm; 1 lb/in = 175 N/m.
¹Values must not be multiplied by any adjustment factors.
²Fastener withdrawal was tested in accordance with ASTM D1761.
³Reference 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)^{1,2}

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

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

Pilot hole requirements:
80% of the root diameter of the screw
For SI: 1 inch = 25.4 mm; 1 lb/in = 175 N/m.
¹Values must not be multiplied by any adjustment factors.
²Fastener withdrawal was tested in accordance with ASTM D1761.
³Reference 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)

[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 ¹ / ₂ "	
	10x2 ³ / ₄ "	
	10x3 ¹ / ₈ "	
	10x4"	
	12x2 ¹ / ₂ "	
	12x3 ¹ / ₈ "	
336	12x4"	
	12x4 ³ / ₈ "	
	TRIM	70
8x2 ¹ / ₂ "		
8x3 ¹ / ₈ "		
9x2 ¹ / ₂ "		
9x2 ³ / ₄ "		
124	9x3 ¹ / ₈ "	
	9x3 ¹ / ₂ "	

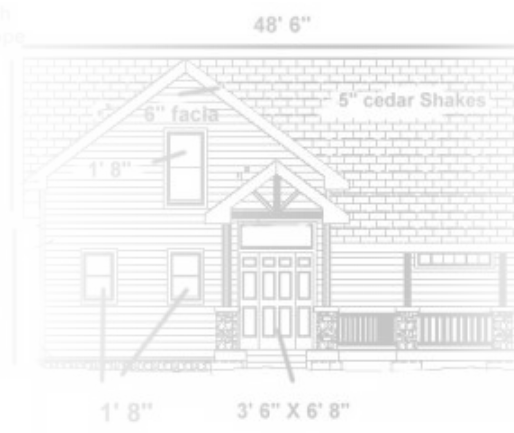
Pilot hole requirements:
90% of the root diameter of the screw
For SI: 1 inch = 25.4 mm; 1 lb = 4.4N.
¹Values shall be multiplied by all applicable adjustment factors (see NDS Table 10.3.1) as applicable to withdrawal.

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

[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 ¹ / ₂ "	
	9x2 ³ / ₄ "	
	9x3 ¹ / ₈ "	
	10x2 ¹ / ₂ "	
	10x2 ³ / ₄ "	
	10x3 ¹ / ₈ "	
	10x3 ¹ / ₂ "	
	10x4"	
	10x4 ³ / ₈ "	
	12x2 ¹ / ₂ "	
	12x2 ³ / ₄ "	
407	12x3 ¹ / ₈ "	
	12x3 ¹ / ₂ "	
	12x3 ³ / ₈ "	
	12x4"	
	12x4 ³ / ₈ "	
	12x5 ³ / ₈ "	
	12x6 ³ / ₈ "	
	12x7 ¹ / ₄ "	
	12x8"	
	12x10"	
	12x12"	
	TRIM	8x2 ¹ / ₂ "
8x2 ³ / ₄ "		
8x3 ¹ / ₈ "		
8x3 ¹ / ₂ "		
94	9x2 ¹ / ₂ "	
	9x2 ³ / ₄ "	
	9x3 ¹ / ₈ "	
KAMELEON	9x2 ¹ / ₂ "	143
	9x2 ³ / ₄ "	
	9x3"	

Pilot hole requirements:
90% of the root diameter of the screw
For SI: 1 inch = 25.4 mm; 1 lb = 4.4N
¹Values shall be multiplied by all applicable adjustment factors (see NDS Table 10.3.1) as applicable to withdrawal.



FASTENER TECHNICAL DATA

R4™, Trim™, Kameleon™

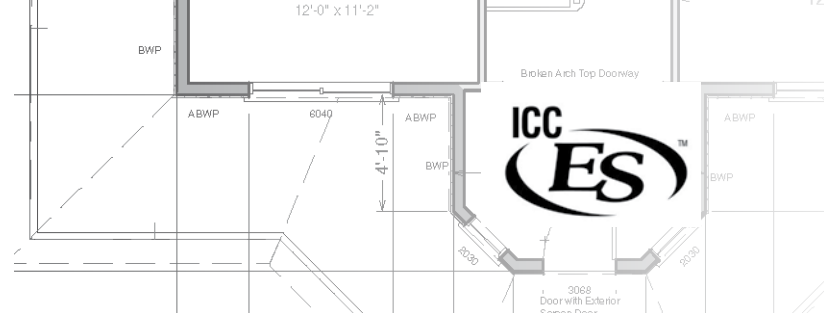


TABLE 4A—CLIMATEK™ COATED FASTENER
REFERENCE LATERAL DESIGN VALUES (Z) FOR SINGLE
SHEAR (TWO-MEMBER) CONNECTIONS^{1,2}
 [For Sawn Lumber with Both Members of Identical Specific Gravity]

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_1	
R4	9x2"	$\frac{3}{4}$	$1\frac{1}{8}$	175
	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 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{1}{2}$	203
	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"	$\frac{3}{4}$	$3\frac{1}{8}$	242
	10x4 $\frac{3}{8}$ "	$\frac{3}{4}$	$3\frac{1}{8}$	
	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 $\frac{1}{8}$ "	$\frac{3}{4}$	$4\frac{3}{4}$		
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 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{1}{2}$	84
	8x2 $\frac{3}{4}$ "	$\frac{3}{4}$	2	
	8x3 $\frac{1}{8}$ "	$\frac{3}{4}$	$2\frac{1}{2}$	
	9x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{1}{2}$	104
	9x2 $\frac{3}{4}$ "	$\frac{3}{4}$	2	
	9x3 $\frac{1}{8}$ "	$\frac{3}{4}$	$2\frac{3}{8}$	
KAMELEON	9x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{5}{8}$	159
	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.

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

²Lateral 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^{1,2}
 [For Sawn Lumber with Both Members of Identical Specific Gravity]

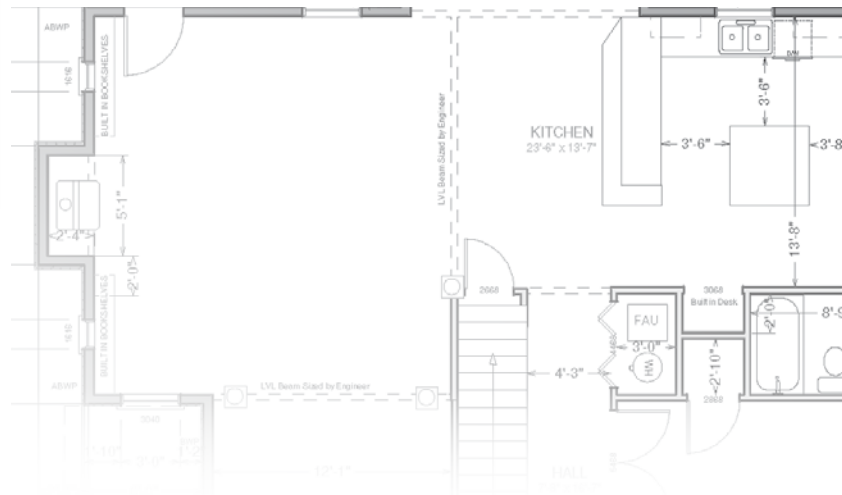
FASTENER DESIGNATION	SIDE MEMBER THICKNESS, t_s (inch)	FASTENER PENETRATION, P (inches)	REFERENCE LATERAL DESIGN VALUE, Z (pounds) FOR SPECIFIC GRAVITY OF:	
			0.67 Parallel to Grain, Z_1	
R4	9x2"	$\frac{3}{4}$	$1\frac{1}{8}$	212
	10x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{1}{2}$	
	10x2 $\frac{3}{4}$ "	$\frac{3}{4}$	2	235
	10x3 $\frac{1}{8}$ "	$\frac{3}{4}$	$2\frac{3}{8}$	
	10x4"	$\frac{3}{4}$	$3\frac{1}{8}$	
	12x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{3}{8}$	
	12x3 $\frac{1}{8}$ "	$\frac{3}{4}$	$2\frac{3}{8}$	328
	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	78
	8x3 $\frac{1}{8}$ "	$\frac{3}{4}$	$2\frac{3}{8}$	
	9x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{3}{8}$	108
	9x2 $\frac{3}{4}$ "	$\frac{3}{4}$	2	
9x3 $\frac{1}{8}$ "	$\frac{3}{4}$	$2\frac{3}{8}$		
RT COMPOSITE	8x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{1}{2}$	107
	8x2 $\frac{3}{4}$ "	$\frac{3}{4}$	2	
	8x3 $\frac{1}{8}$ "	$\frac{3}{4}$	$2\frac{3}{8}$	
	9x2 $\frac{1}{2}$ "	$\frac{3}{4}$	$1\frac{1}{2}$	151
	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.

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

²Lateral load testing was performed in accordance with ASTM D1761.



FASTENER TECHNICAL DATA

R4™, Trim™, Kameleon™



TABLE 5—CONNECTION GEOMETRY REQUIREMENTS^{1,2}

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 ³	NA ³	NA ³	NA ³
Edge distance	Loading parallel to grain	1	1	1 1/8	1 3/8
	Loading perpendicular to grain	NA ³	NA ³	NA ³	NA ³
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 ³	NA ³	NA ³	NA ³
Spacing between rows	In-line rows	5/8	5/8	3/4	7/8
	Staggered rows ⁴	1/4	3/8	3/8	3/8

For SI: 1 inch = 25.4 mm.

¹ 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.

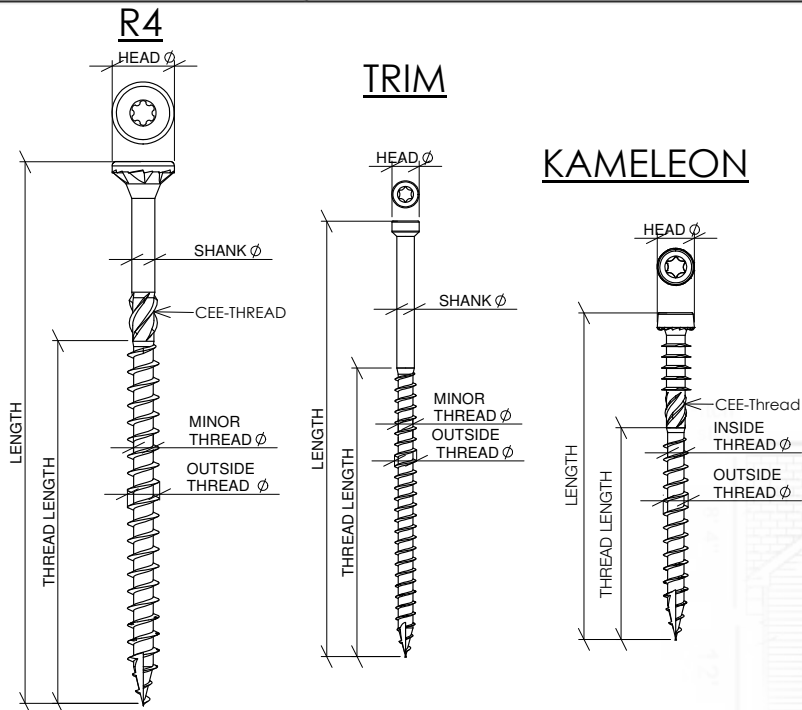
² The term *D* is the shank diameter, as specified in Table 1.

³ Loading perpendicular to grain is outside the scope of this evaluation report.

⁴ 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
Corrosion Resistance of Fasteners		
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.





FASTENER TECHNICAL DATA

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

TABLE 1—GRK CALIBURN XL 7.5 SCREW ANCHORS INSTALLATION SPECIFICATIONS

ANCHOR PROPERTY / SETTING INFORMATION	SYMBOL	UNITS	NOMINAL ANCHOR SIZE	
			¹⁹ / ₆₄ INCH (7.5 mm)	
Nominal anchor diameter	$d_a [d_o]^1$	in. (mm)	0.295 (7.5)	
Minimum diameter of hole clearance in fixture	d_h	in. (mm)	⁵ / ₁₆ (7.9)	
Nominal drill bit diameter	d_{bit}	mm	6	
Bit tolerance range	-	mm	6.15 to 6.40	
Maximum impact torque power rating	$T_{impact-max}$	ft-lb. (Nm)	33 (45)	
Screw length	L	in. (mm)	3.62 (92)	4.92 (125)
Minimum nominal embedment depth	h_{nom}	in. (mm)	2.76 (70)	3.35 (85)
Length of thread	l_{gew}	in. (mm)	2.83 (72)	3.43 (87)
Minimum member thickness	h_{min}	in. (mm)	4.33 (110)	5.32 (135)
Minimum edge distance	$c_{min} = c_{ac}$	in. (mm)	5.67 (144)	5.67 (144)
Minimum spacing distance	s_{min}	in. (mm)	7.56 (192)	7.56 (192)
Minimum hole depth	h_o	in. (mm)	3.35 (85)	3.94 (100)

For SI: 1 inch = 25.4 mm, 1 ft-lb = 1.356 N-m.

¹The notation in brackets is for the 2006 IBC.

Note:

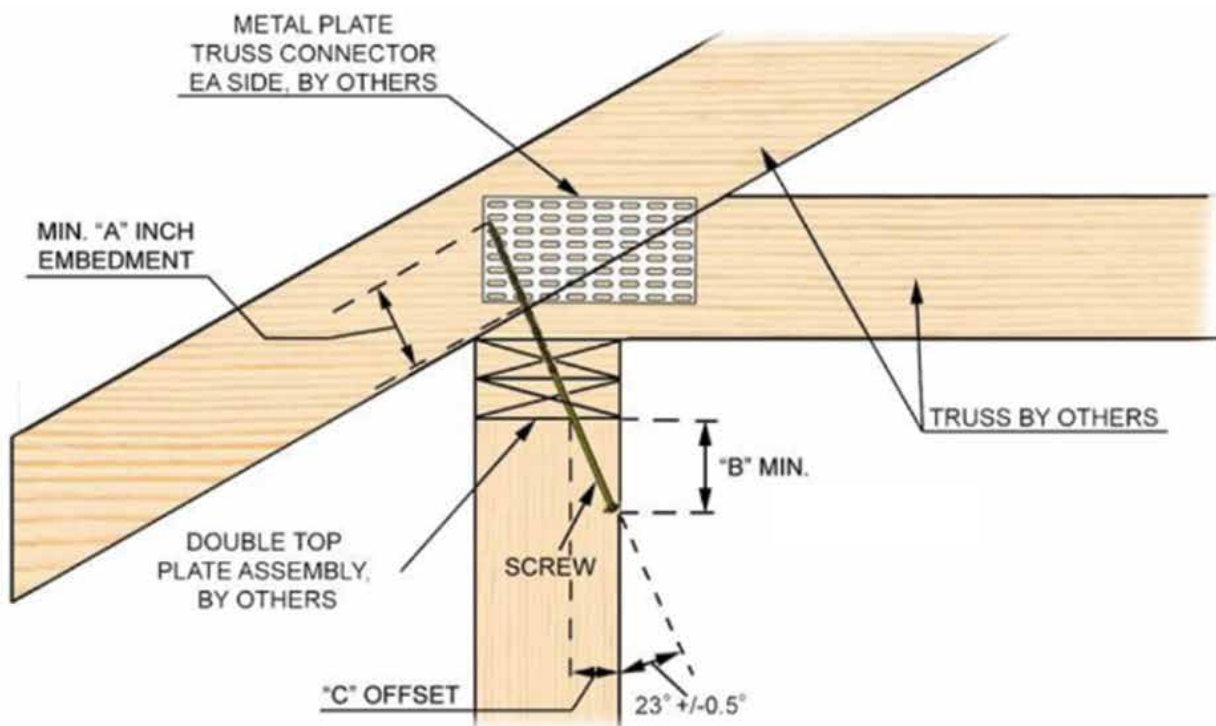
For safety factor requirements in your area, contact your local building official, architect or engineer. Testing was performed according to ASTM standard E-488-96. **The Caliburn™ XL is on the ICC Report ESR-3251.** For most current information and specifications visit our website: www.grkfasteners.com.

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)	SPF (Spruce Pine Fir)
Allowable Uplift in lbs	Ø3/8 RSS	1230	1017	717
Allowable Shear / Lateral in lbs		528	480	393
Allowable Uplift in lbs	# 12 R4	873	722	509
Allowable Shear / Lateral in lbs		352	322	273
Allowable Uplift in lbs	Ø1/4 LPS/RSS	562	465	328
Allowable Shear / Lateral in lbs		242	221	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							
¼ x 3-3/8"	2	24	212	X	X	X	X	X	X						
	2	16	318												
	2	12	424												
	3	24	318												
	3	16	477												
	3	12	636												
¼ x 5"	2	24	212	X	X	238	X	X							
	2	16	318						357						
	2	12	424							476					
	3	24	318								357				
	3	16	477									536			
	3	12	636										714		
¼ x 6-3/4"	2	24	212	X	X	255	238								
	2	16	318					383	357						
	2	12	424							510				476	
	3	24	318								383				357
	3	16	477									575			
	3	12	636										766		

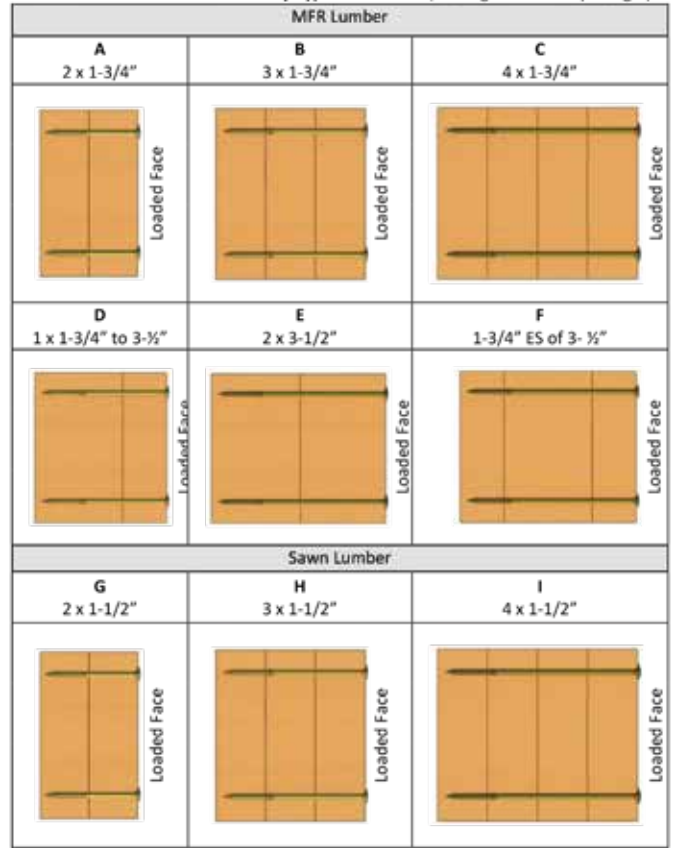
Note: 1. Applied load from joist are assumed to be uniform
2. Fastener capacity is based on fastener spacing, not joist spacing

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
¼ 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

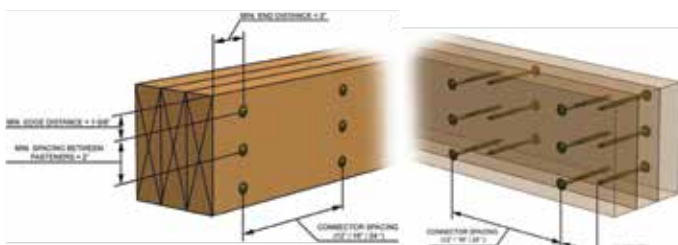
Table 3 Assembly Types (Cutting Plane 'A-A' per Fig.3)



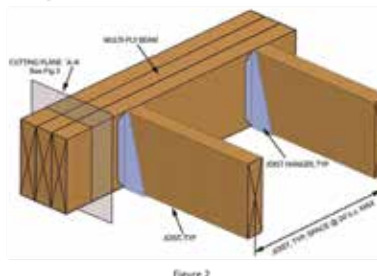
ABBREVIATIONS:

- 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

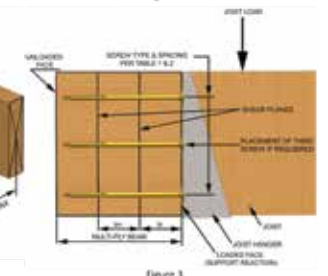
Minimum Spacing Geometry - perpendicular to grain loading



Multi-Ply Beam with One Face Loaded

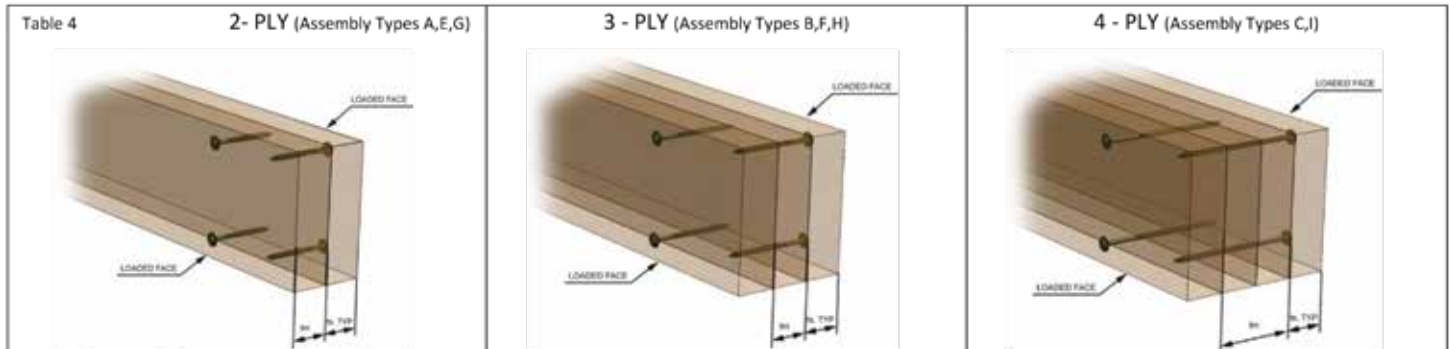


Cutting Plane 'A-A'



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

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		

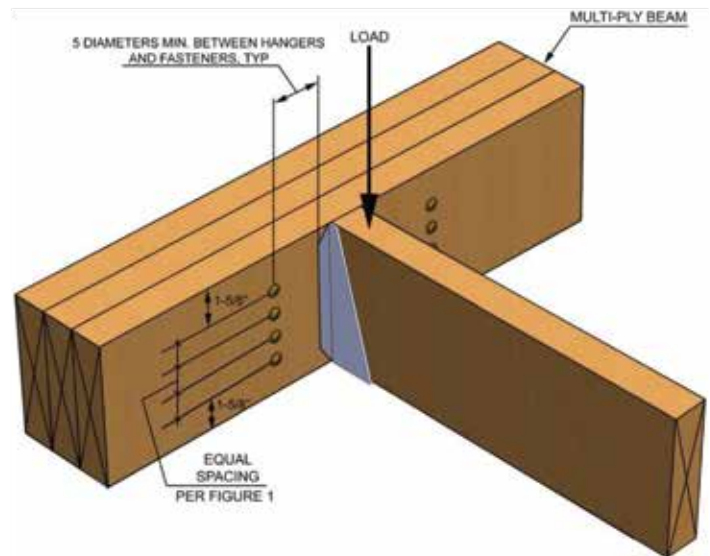


Figure 5

** 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

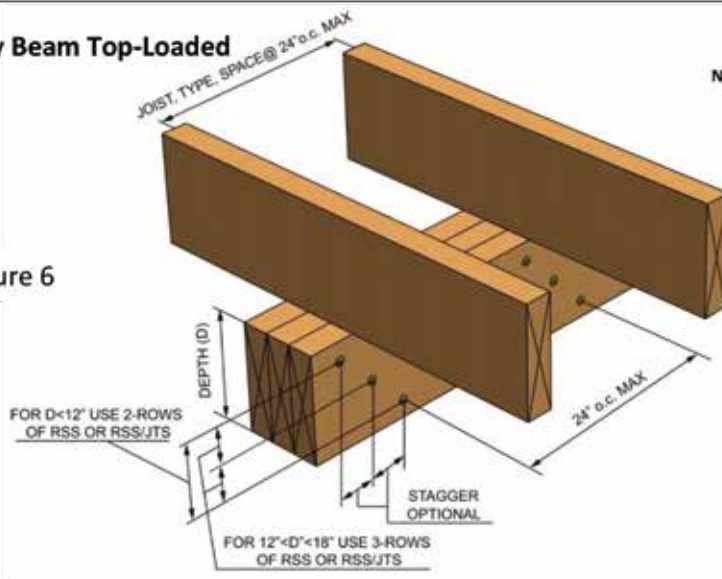


Figure 6

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.

For ICC Report ESR-2442, please visit:
www.icc-es.org/reports/pdf-files/icc-es/ESR-2442.pdf

Ledger Board: Structural Screw

Table 1

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 (lb/ft)	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 2 (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 (lb/ft)	Screw Spacing in inches/ wet-use in- service				
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 3

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 (lb/ft)	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

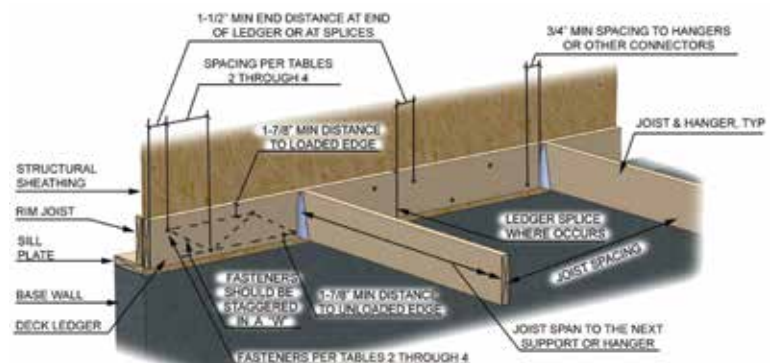
Table 4 (wet-use in- service)

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 (lb/ft)	Screw Spacing in inches/ wet-use in- service				
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

Table 5 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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GRK Fasteners USA
ITW Renovation / Remodeling
155 Harlem Ave., Building N3E
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