

Drive with Speed, Quality and Confidence







What Makes Us ÜberGrade?



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.











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Fastener Selection Guide and Quick Reference Product Locator

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, and ESR-3201 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".



R4™ MULTI-PURPOSE FRAMING SCREWS:

Frame with ease and confidence. Multi-use screw for wood, particle board, sheet metal, cement fibre 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.

They are ESR code approved under ICC Report ESR-3201.



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.

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

RSS™ LPS: Panel Fastener: For Structural Insulated Panel Systems.

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



KAMELEON™ COMPOSITE DECK SCREWS:

Heads blend in with decking with no mushrooming effect. Use in plastic or composite decking. They come in a variety of deck matching colours of which Pebble Grey, Saddle, Woodland Brown and Madeira are approved for use with Trex Select™ deck boards.

The Kameleon screws are self tapping featuring fibre 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.



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.



Fastener Selection Guide and Quick Reference Product Locator

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.



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.

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



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 labour when installing wooden doors or windows. A unique 2 piece crown/bit allows for quick and easy driving.



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 create threads while being driven into the concrete. Proper pre-drilling with correct drill bit required. Caliburn™ screws are Climatek™ AC257 code approved coating.

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





R4™

Multi-Purpose
Framing Screws
Frame with Ease
and Confidence



APPROVALS/LISTING



DESCRIPTION/SUGGESTED SPECIFICATIONS

Multi-Purpose Framing Screws—

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.

ÜberGrade™

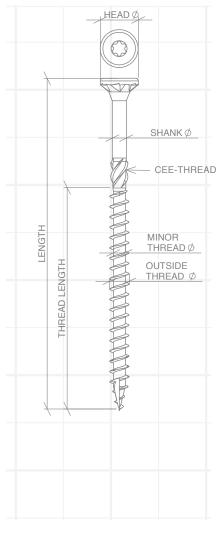


This design enhances the R4™'s versatility by allowing the fastener to countersink into even the hardest woods. The head of the screw closes the hole off with precision, leaving no damaged fibres around the head.

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.

- 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 fibre board, particle board, sheet metal, wood decking and melamine.







R4™ Multi-Purpose Framing Screws

APPLICATIONS









SELECTION CHART









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 1-1/2"	4.0 x 40			01073	1,000		
#8 x 2"	4.0 x 50			01077	850	02077	S/100
#9 x 1-3/4"	4.5 x 45					02097	S/100
#9 x 2"	4.5 x 50	00099	3,700	01099	690		
#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			01103	480		M/100
#9 x 3-1/8"	4.5 x 80	00105	1,900	01105	425	02105	M/100
#10 x 2-1/2"	5.0 x 63	00133	2,500	01133	470		
#10 x 2-3/4"	5.0 x 70	00135	2,000				
#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
#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 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	M/9
#12/14 x 7-1/4"	6.0 x 180	00179	1,000			02179	M/9
#12/14 x 8"	6.0 x 200	00181	500			02181	M/9
#12/14 x 10"	6.0 x 250					02187	M/12
#12/14 x 12"	6.0 x 300					02193	M/12

^{2&}quot; bit included in Pro-Paks, 1" bits in Handy-Paks.

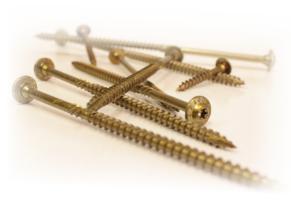
^{*}Does not come with the **Zip-Tip™** feature. **NOTE:** Pro-Paks need to be ordered in multiples of two.



RSSTM

Rugged Structural Screws

Speedy Lag Bolt Alternative with Immense Drawing Power



APPROVALS/LISTING





DESCRIPTION/SUGGESTED SPECIFICATIONS

Rugged Structural Screws—

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.

ÜberGrade™



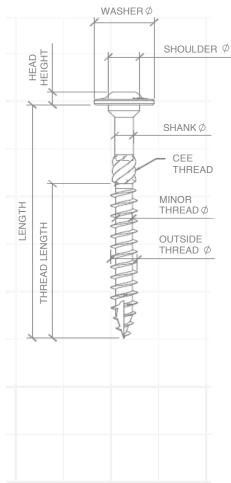
Our round head with built-in shield (washer type head) has no sharp edges like conventional lag screws. The added shoulder (nominal diameter) underneath the washer has the ability to center the RSS™ screw in pre-drilled hardware like hinges and connector plates.

RSS™ JTS - Used for joists and trusses

RSS™ LTF - Designed for log home and timber frame

- 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, 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.
- Advantages: Factored Resistances as per CSA 086-14





RSS™ Rugged Structural Screws

SELECTION CHART





T-25



T-30







SHANK DIAMETER	THREAD DIAMETER	LENGTH	BULK PART NO.	BULK BOX QTY.	PRO-PAK Part no.	PRO-PAK Pail QTY.	HANDY-PAK Part no.	HANDY-PAK CTN. SIZE/QTY
		1-1/2"	10127*	2,300				
0.138	0.194 (#10)	2-3/4"	10135	1,000				
		3-1/8"	10137	800			12137	M/50
		1-1/2"	10151*	1,000			12151	M/50
		2"	10155*	800			12155	M/50
0.169	0.25 (1/4)	2-1/2"	10157	700			12157	M/50
		3-1/8"	10161	500			12161	M/50
		3-1/2"	10163	400			12163	M/50
		2-1/2"	10217	600	12217	100		
		2-3/4"	10219	500	12219	100		
		3-1/8"	10221	500	12221	100		
0.1988	0.3125 (5/16)	3-1/2"	10223	500	12223	100		
		4"	10225	400	12225	100		
		5-1/8"	10231	300	12231	50		
		6"	10235	300	12235	50		
		3-1/8"	10273	400	12273	50		
		4"	10275	400	12275	50		
		5-1/8"	10278	300	12278	50		
		6"	10281	300	12281	50		
0.2220	0.375 (3./0!!)	7-1/4"	10285	200	12285	50		
0.2228	0.375 (3/8")	8"	10287	300	12287	50		
		10"	10293	300	12293	50		
		12"	10299	300	12299	50		
		14-1/8"	10307	200	12307	50		
		16"	10311	100	12311	50		
RSS™ JTS – JO	DIST AND TRUSS S	CREW						
	2.27 (2.42)	3-3/8"	91727†	400				
0.173	0.25 (1/4)	5"	91735	300				
RSS™ LTF — T	IMBER FRAME SCR	REW	<u> </u>		·		·	
		8"	91287	300			93287	M/50
		10"	91293	300			93293	M/50
0.22	0.31 (3/8)	12"	91299	300			93299	M/50
·		15"	91308	300			93308	M/50
		20"					93323	M/25

RSS™ BLISTE	RSS™ BLISTER-PAK													
SHANK DIAMETER	THREAD DIAMETER	LENGTH	Part No.	QTY										
		3-1/8"	13221	15										
0 1000	0.3125 (5/16)	4"	13225	12										
0.1988	0.3123 (3/10)	5-1/8"	13231	10										
		6"	13235	8										

RSS™ SMALL	RSS™ SMALLER HANDY-PAK													
SHANK DIAMETER	THREAD DIAMETER	LENGTH	Part No.	QTY										
		3-1/8"	14221	M/25										
0.1988	0.2125 (5/16)	4"	14225	M/25										
0.1988	0.3125 (5/16)	5-1/8"	14231	M/20										
		6"	14235	M/20										

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" bits in Handy-Paks.



GRK RSS vs. Lag Bolt

No more pre-drilling...
Just grab a screw and drill!!

Convert from a lag screw to GRK RSS Fasteners

PERFORMANCE DATA

(Compliant for use with Canadian National Building Code)

FACTORED RESISTANCES PERFORMANCE COMPARISON FOR D.FIR MEMBERS (1,2,3,4,5)
APPLICATION: 2" LEDGER BOARD TO 2" RIM BOARD (LBS)

	LAG	SCREWS		GRK SC	REWS	
LAG SIZE	LENGTH	SHEAR RESISTANCE	PULL-OUT	TYPE OF SCREW	SHEAR RESISTANCE	PULL-OUT
1/4"	3	171	360	GRK RSS (3") (10273)	366	517
1/4"	4	200	360	GRK RSS (4") (10275)	466	517
3/8"	3	249	618	GRK RSS (3") (10273)	366	517
3/8"	4	322	618	GRK RSS (4") (10275)	466	517
1/2"	3	320	779	GRK RSS (3") (10273)	366	517
1/2"	4	427	779	GRK RSS (4") (10275)	466	517
5/8"	3	385	920	GRK RSS (3") (10273)	366	517
5/8"	4	513	920	GRK RSS (4") (10275)	466	517

¹ Lag Screw Factored Resistances have been developed in accordance with 12.6 CSA 086-14. Apply adjustment factors where applicable.

EXAMPLE DECK DESIGN: ATTACHING LEDGER BOARD TO YOUR HOUSE!

Assumptions:

- Deck Span = 8' out from the house
- 10′ Wide
- LL = 40 PSF; DL = 10 PSF

Total lateral resistance required = 2900 lbs

Possible Solutions:

Using 1/4" by 3" Lag Bolts = 2900 / 242 = 12 lags

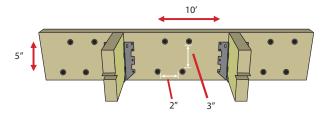
Using 3/8'' by 3'' Lag Bolts = 2900 / 249 = 12 Lags (see example below)

Using 1/2'' by 3'' Lag Bolts = 2900 / 320 = 9

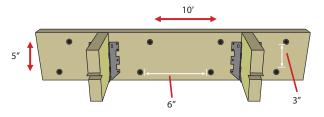
Using 5/8'' by 3'' Lag Bolts = 2900 / 385 = 8

Using 3/8 * 3.125 RSS = 2900 / 366 = 8 screws (see example below)

LAG SOLUTION: 12 LAG SCREWS



RSS SOLUTION: 8 RSS SCREWS¹ NO PRE-DRILLING



¹ RSS Spacing must comply with 12.11.5 CSA 086-14

² Factored withdrawn resistance shown assume the entire threaded portion of the screw is installed In to the main member

³ Minimum spacing ,edge and end distances shall be in accordance with 12.6.2 CSA 086-14

⁴ GRK RSS Screw spacing must comply with 12.11.5 CSA 086-14 (See Spacing Tables)

⁵ Dimensions of Lag screw based on Table 15 & 16 ASME B18.2.1-2012



Factored Resistances (RSS 1/4")

FACTORED RESISTANCES FOR D.FIR MEMBERS (LBS)

	SIZE		MODEL/		THREADED		'	!		D-FIR L	ARCH 1					0.48
SHANK DIAMETER		LENGTH (in)	BULK PART NO.	LENGTH (in)	LENGTH (mm)						ESISTANO THICKNE					WITHDRAWL (LBS)
	(in)					38.1 50.8 63.5 76.2 88.9 101.6 114.3 127 152.4 203.2]		
						1.5	2	2.5	3	3.5	4	4.5	5	6	8	1
		2.5	10217	1.5	38.1	225										363
.169	1/4	3.125	22400	2	50.8	281	253									484
		3.5	10163	2.75	69.85	300	300	225								665

¹ See Foot Notes below

FACTORED RESISTANCES FOR S-P-F MEMBERS (LBS)

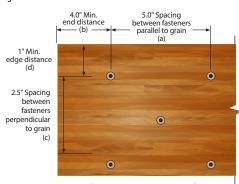
SHANK DIAMETER	DIA	LENGTH (in)	MODEL/ BULK PART NO.	LENGTH	THREADED LENGTH (mm)				TORED L	ATERAL R	E-FIR (1 RESISTANC THICKNES	CE (Kd=1.				0.42 WITHDRAWL (LBS)
	(in)					38.1	50.8	63.5	76.2	88.9	101.6	114.3	127	152.4	203.2	
						1.5	2	2.5	3	3.5	4	4.5	5	6	8	
		2.5	10217	1.5	38.1	197										286
.169	1/4	3.125	22400	2	50.8	246	222									382
		3.5	10163	2.75	69.85	268	268	197								525

¹ Factored resistances shown have been developed in accordance with 12.11 CSA 086-14 based on testing per ICC-ES AC233. Apply the adjustment factors Kd, Ksf and Kt as per 15.2.2 where applicable. Do not install in end grain.

STANDARD RSS SCREW (SIZE 1/4")

	GEOMETRY	MINIMUM DIA	MENSIONS (in)
		D. FIR-L	S-P-F
Α	Spacing parallel to grain	5.0	4.0
В	End distance parallel to grain	4.0	3.0
C	Spacing perpindicular to grain	2.5	2.0
D	Edge distance perp to grain	1	1.0

¹ Additional screws may be staggered diagonally between rows.



D-Fir Larch Spacing Requirements¹

MAXIMUM FASTENER SPACING FOR DECK LEDGER TO RIM BOARD 1/4" (in.)

LEDGER SIZE	MODEL	RIM BOARD	SPECIFIED LIVE LOAD		MAXIM	IUM DECK JOI	ST SPAN (ft.)	(1,2,3,4,5,6)	
			psf (kPa)	6	8	10	12	14	16
		2x SPF	40 (1.9)	11.0	8.0	6.5	5.5	4.5	4.0
2x	10157	2x SPF	50 (2.4)	9.0	7.0	5.5	4.5	4.0	3.5
		2x SPF	100 (4.8)	5.0	3.5	3.0	2.5	2.0	2.0

¹ Solid Sawn lumber ledger board shall be a minimum of 2 x 8. Spacings apply to S-P-F, Hem-Fir or D.Fir-L

² Factored withdrawal resistances shown are only applicable to short term loads as per 12.11.5 CSA 086-14

³ Factored withdrawal resistances shown assume the entire threaded portion of the screw is installed into the main member.

⁴ Minimum spacing, edge and end distances shall be in accordance with 12.9.2.1 CSA 086-14 using the corresponding shank diameter. See table below.

⁵ Divide table value by 224.8 to convert to kN (1Kn = 224.8 lbs)

² Spacing requirements are based on testing as per ICC-ES and modified to meet the requirements of 12.9.2.1 CSA 086-14 assuming dry service conditions.

³ Tabulated values are based on the listed specified live loads in combination with 10 psi specified dead load.

⁴ RSS Screws shall be placed in accordance with screw spacing shown in tables above.

⁵ Factored resistances shown assume the entire threaded portion of the screw is installed into the main member.

⁶ Spacing calculated based on factored resistance shown in tables above.

RSS™ Rugged Structural Screws

Factored Resistances (RSS 5/16")

FACTORED RESISTANCES FOR D.FIR MEMBERS (LBS)

	SIZE		MODEL/		THREADED					D-FIR I	ARCH 1					0.48
SHANK DIAMETER	THREAD DIA		BULK Part no.	LENGTH (in)	LENGTH (mm)							CE (Kd=1. SS (mm &	-			WITHDRAWL (LBS)
	(in)														203.2]
						1.5	2	2.5	3	3.5	4	4.5	5	6	8	
		2.5	10217	1.5	38.1	263										413
		2.75	10219	1.75	44.45	289										482
		3.125	10221	2.125	53.975	329	296									585
.1988	5/16	3.5	10223	2.5	63.5	368	368	263								689
		4	10225	2.75	69.85	398	421	394	263	398						757
		5.125	10231	3.5	88.9	398	451	481	464	411	296					964
		6	10235	3.875	98.425	398	451	481	481	481	451	394	263			1067

¹ See Foot Notes below

FACTORED RESISTANCES FOR S-P-F MEMBERS (LBS)

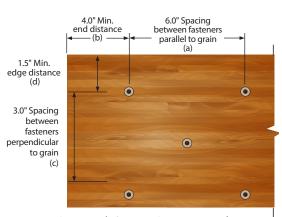
	SIZE		MODEL/		THREADED				SPRU	JCE-PIN	E-FIR (1	,2,3,4,5)		,		0.42
SHANK DIAMETER	THREAD DIA		BULK PART NO.	LENGTH (in)	LENGTH (mm)							CE (Kd=1. SS (mm &				WITHDRAWL (LBS)
	(in)					38.1 50.8 63.5 76.2 88.9 101.6 114.3 127 152.4 203.2										
						1.5	2	2.5	3	3.5	4	4.5	5	6	8	
		2.5	10217	1.5	38.1	230										326
		2.75	10219	1.75	44.45	253										381
		3.125	10221	2.125	53.975	287	259									462
.1988	5/16	3.5	10223	2.5	63.5	322	322	230								544
		4	10225	2.75	69.85	357	368	345	230	357						598
		5.125	10231	3.5	88.9	357	403	439	415	369	259					761
		6	10235	3.875	98.425	357	403	439	439	439	403	345	230			843

¹ Factored resistances shown have been developed in accordance with 12.11 CSA 086-14 based on testing per ICC-ES AC233. Apply the adjustment factors Kd, Ksf and Kt as per 15.2.2 where applicable. Do not install in end grain.

STANDARD RSS SCREW (SIZE 5/16")

	GEOMETRY	MINIMUM DII	MENSIONS (in)
		D. FIR-L	S-P-F
А	Spacing parallel to grain	6.0	5.0
В	End distance parallel to grain	4.0	3.0
C	Spacing perpindicular to grain	3.0	2.0
D	Edge distance perp to grain	1.5	1.0

¹ Additional screws may be staggered diagonally between rows.



D-Fir Larch Spacing Requirements¹

Factored Resistances (RSS 5/16") continued on page G 13

² Factored withdrawal resistances shown are only applicable to short term loads as per 12.11.5 CSA 086-14

³ Factored withdrawal resistances shown assume the entire threaded portion of the screw is installed into the main member.

⁴ Minimum spacing, edge and end distances shall be in accordance with 12.9.2.1 CSA 086-14 using the corresponding shank diameter. See table on page G 13.

⁵ Divide table value by 224.8 to convert to kN (1Kn = 224.8 lbs)

Factored Resistances (RSS 5/16") continued from page G 12

MAXIMUM FASTENER SPACING FOR DECK LEDGER TO RIM BOARD 5/16" (in.)

LEDGER SIZE	MODEL	RIM BOARD	SPECIFIED LIVE LOAD		MAXIM	IUM DECK JOI	ST SPAN (ft.)	(1,2,3,4,5,6)	•
			psf (kPa)	6	8	10	12	14	16
		2x SPF	40 (1.9)	16.0	12.0	9.5	8.0	7.0	6.0
2x	10221	2x SPF	50 (2.4)	13.0	10.0	8.0	6.5	5.5	5.0
		2x SPF	100 (4.8)	7.0	5.5	4.0	3.5	3.0	2.5

¹ Solid Sawn lumber ledger board shall be a minimum of 2 x 8. Spacings apply to S-P-F, Hem-Fir or D.Fir-L

Factored Resistances (RSS 3/8")

FACTORED RESISTANCES FOR D.FIR MEMBERS (LBS)

	SIZE		MODEL/	THREADED	THREADED				,	D-FIR L	ARCH 1			,		0.48
SHANK DIAMETER	THREAD DIA		BULK PART NO.	LENGTH (in)	LENGTH (mm)							E (Kd=1. SS (mm &				WITHDRAWL (LBS)
	(in)					38.1	50.8	63.5	76.2	88.9	101.6	114.3	127	152.4	203.2	
						1.5	2	2.5	3	3.5	4	4.5	5	6	8	
		3.125	10273	1.5	38.1	366	329									449
		4	10275	2.75	69.85	466	468	439								823
		5.125	10278	3.5	88.9	466	525	582	540	476	329					1048
		6	10281	4	101.6	466	525	582	582	466	466	466				1197
.2228	3/8	7.25	10285	4.5	114.3	466	525	582	582	466	582	582	554	366		1347
.2220	3/0	8	10287	4.375	111.125	466	525	582	582	582	582	582	582	525		1310
		10	10293	5	127	466	525	582	582	582	582	582	582	582	525	1497
		12	10299	5.875	149.2	466	525	582	582	582	582	582	582	582	582	1759
		14.125	10307	5.875	149.2	466	525	582	582	582	582	582	582	582	582	1759
		16	10311	5.75	146.1	466	525	582	582	582	582	582	582	582	582	1721

¹ See Foot Notes below

FACTORED RESISTANCES FOR S-P-F MEMBERS (LBS)

	SIZE		MODEL/		THREADED				SPRI	JCE-PIN	E-FIR (1	,2,3,4,5)				0.42
SHANK DIAMETER	THREAD DIA		BULK PART NO.	LENGTH (in)	LENGTH (mm)	FACTORED LATERAL RESISTANCE (Kd=1.00) WOOD SIDE MEMBER THICKNESS (mm & in)									WITHDRAWL (LBS)	
	(in)					38.1	50.8	63.5	76.2	88.9	101.6	114.3	127	152.4	203.2]
						1.5	2	2.5	3	3.5	4	4.5	5	6	8	
		3.125	10273	1.5	38.1	320	288									354
		4	10275	2.75	69.85	410	410	384								650
		5.125	10278	3.5	88.9	419	470	521	483	416	288					827
		6	10281	4	101.6	419	470	521	531	419	419	419				945
.2228	3/8	7.25	10285	4.5	114.3	419	470	521	531	419	531	531	496	320		1063
.2220	3/0	8	10287	4.375	111.125	419	470	521	531	531	531	531	531	470		1034
		10	10293	5	127	419	470	521	531	531	531	531	531	531	470	1182
		12	10299	5.875	149.2	419	470	521	531	531	531	531	531	531	531	1388
		14.125	10307	5.875	149.2	419	470	521	531	531	531	531	531	531	531	1388
		16	10311	5.75	146.1	419	470	521	531	531	531	531	531	531	531	1359

¹ Factored resistances shown have been developed in accordance with 12.11 CSA 086-14 based on testing per ICC-ES AC233. Apply the adjustment factors Kd, Ksf and Kt as per 15.2.2 where applicable. Do not install in end grain.

Factored Resistances (RSS 3/8") continued on page G 14





² Spacing requirements are based on testing as per ICC-ES and modified to meet the requirements of 12.9.2.1 CSA 086-14 assuming dry service conditions.

³ Tabulated values are based on the listed specified live loads in combination with 10 psi specified dead load.

⁴ RSS Screws shall be placed in accordance with screw spacing shown in tables above.

⁵ Factored resistances shown assume the entire threaded portion of the screw is installed into the main member.

⁶ Spacing calculated based on factored resistance shown in tables above.

² Factored withdrawal resistances shown are only applicable to short term loads as per 12.11.5 CSA 086-14

³ Factored withdrawal resistances shown assume the entire threaded portion of the screw is installed into the main member.

⁴ Minimum spacing, edge and end distances shall be in accordance with 12.9.2.1 CSA 086-14 using the corresponding shank diameter. See table on page G 15.

 $^{^{5}}$ Divide table value by 224.8 to convert to kN (1Kn = 224.8 lbs)

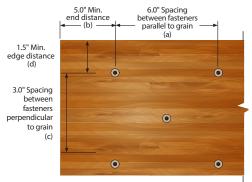
RSS™ Rugged Structural Screws

Factored Resistances (RSS 3/8") continued from page G 13

STANDARD RSS SCREW (SIZE 3/8" OR LTF)

	GEOMETRY	MINIMUM DIA	MENSIONS (in)
		D. FIR-L	S-P-F
Α	Spacing parallel to grain	6.0	5.0
В	End distance parallel to grain	5.0	3.0
C	Spacing perpindicular to grain	3.0	2.5
D	Edge distance perp to grain	1.5	1.0

¹ Additional screws may be staggered diagonally between rows.



D-Fir Larch Spacing Requirements¹

MAXIMUM FASTENER SPACING FOR DECK LEDGER TO RIM BOARD 3/8" (in.)

LEDGER SIZE	MODEL	RIM BOARD	SPECIFIED LIVE LOAD		MAXIM	UM DECK JOI	ST SPAN (ft.)	(1,2,3,4,5,6)	
			psf (kPa)	6	8	10	12	14	16
		2x SPF	40 (1.9)	17.5	12.5	10.6	16.5	7.5	6.5
2x	10273	2x SPF	50 (2.4)	14.5	10.5	9.0	7.5	6.5	5.5
		2x SPF	100 (4.8)	8.0	6.0	4.5	4.0	3.5	

¹ Solid Sawn lumber ledger board shall be a minimum of 2 x 8. Spacings apply to S-P-F, Hem-Fir or D.Fir-L

Factored Resistances (JTS - Joint and Truss Screw)

FACTORED RESISTANCES FOR D.FIR MEMBERS (LBS)

	SIZE		MODEL/		THREADED				D-	FIR LAR	CH (1,2,3,	4,5)			0.48
SHANK DIAMETER		LENGTH (in)	BULK PART NO.	LENGTH (in)	LENGTH (mm)		FACTORED LATERAL RESISTANCE (Kd=1.00) WOOD SIDE MEMBER THICKNESS (mm & in)							WITHDRAWL (LBS)	
	(in)					38.1	38.1 50.8 63.5 76.2 88.9 101.6 114.3 127 152.4 203.2								
						1.5 2 2.5 3 3.5 4 4.5 5 6 8									
		3.375	91727	1.375	34.925	311	311	201						 	334
.173	1/4	5	91735	1.625	41.275	337	383	397	383	337	230			 	395
		6.75	91743	1.5	38.1	337 383 397 397 397 397 397 360						364			

¹ See Foot Notes below

FACTORED RESISTANCES FOR S-P-F MEMBERS (LBS)

	SIZE		MODEL/		THREADED				SPRI	JCE-PIN	E-FIR (1	,2,3,4,5)		'		0.42
SHANK DIAMETER	THREAD DIA		BULK PART NO.	LENGTH (in)	LENGTH (mm)		FACTORED LATERAL RESISTANCE (Kd=1.00) WOOD SIDE MEMBER THICKNESS (mm & in)							WITHDRAWL (LBS)		
	(in)					38.1	50.8	63.5	76.2	88.9	101.6	114.3	127	152.4	203.2]
						1.5 2 2.5 3 3.5 4 4.5 5 6 8										
		3.375	91727	1.375	34.925	272	272	176								264
.173	1/4	5	91735	1.625	41.275	302	342	362	342	302	201					312
		6.75	91743	1.5	38.1	302	342	362	362	362	362	362	322			288

¹ Factored resistances shown have been developed in accordance with 12.11 CSA 086-14 based on testing per ICC-ES AC233. Apply the adjustment factors Kd, Ksf and Kt as per 15.2.2 where applicable. Do not install in end grain.

Factored Resistances (RSS JTS) continued on page G 15



² Spacing requirements are based on testing as per ICC-ES and modified to meet the requirements of 12.9.2.1 CSA 086-14 assuming dry service conditions.

³ Tabulated values are based on the listed specified live loads in combination with 10 psi specified dead load.

⁴ RSS Screws shall be placed in accordance with screw spacing shown in tables above.

⁵ Factored resistances shown assume the entire threaded portion of the screw is installed into the main member.

⁶ Spacing calculated based on factored resistance shown in tables above.

² Factored withdrawal resistances shown are only applicable to short term loads as per 12.11.5 CSA 086-14

³ Factored withdrawal resistances shown assume the entire threaded portion of the screw is installed into the main member.

⁴ Minimum spacing, edge and end distances shall be in accordance with 12.9.2.1 CSA 086-14 using the corresponding shank diameter. See table on page G 16.

 $^{^{5}}$ Divide table value by 224.8 to convert to kN (1Kn = 224.8 lbs)

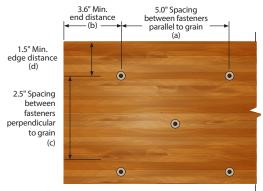
RSS™ Rugged Structural Screws

Factored Resistances (RSS JTS) continued from page G 14

STANDARD RSS SCREW (JTS/LPS)

	GEOMETRY	MINIMUM DIA	MENSIONS (in)
		D. FIR-L	S-P-F
Α	Spacing parallel to grain	5.0	4.0
В	End distance parallel to grain	3.6	3.0
C	Spacing perpindicular to grain	2.5	2.0
D	Edge distance perp to grain	1.5	1.0

¹ Additional screws may be staggered diagonally between rows.



D-Fir Larch Spacing Requirements¹

Factored Resistances (RSS LTF - Timber Frame Screw)

FACTORED RESISTANCES FOR D.FIR MEMBERS (LBS)

	SIZE		MODEL/		THREADED					D-FIR	LARCH1					0.48
SHANK DIAMETER	THREAD DIA		BULK PART NO.	LENGTH (in)	LENGTH (mm)		FACTORED LATERAL RESISTANCE (Kd=1.00) WOOD SIDE MEMBER THICKNESS (mm & in)							WITHDRAWL (LBS)		
	(in)					38.1	50.8	63.5	76.2	88.9	101.6	114.3	127	152.4	203.2]
						1.5	2	2.5	3	3.5	4	4.5	5	6	8	
		8	22300	3.875	98.4	449	2254	551	551	551	551	551	551	507		1160
.220	3/8	10	22400	3.875	98.4	449	507	551	551	551	551	551	551	551	507	1160
		12	22500	3.875	98.4	449	507	551	551	551	551	551	551	551	551	1160

¹ See Foot Notes below

FACTORED RESISTANCES FOR S-P-F MEMBERS (LBS)

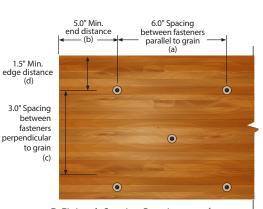
	SIZE				THREADED				SPRI	JCE-PIN	E-FIR (1	,2,3,4,5)		1		0.42
SHANK DIAMETER	THREAD DIA	LENGTH (in)	BULK PART NO.	LENGTH (in)	LENGTH (mm)		FACTORED LATERAL RESISTANCE (Kd=1.00) WOOD SIDE MEMBER THICKNESS (mm & in)							WITHDRAWL (LBS)		
	(in)					38.1	50.8	63.5	76.2	88.9	101.6	114.3	127	152.4	203.2]
						1.5	2	2.5	3	3.5	4	4.5	5	6	8	
		8	22300	3.875	98.4	403	454	502	502	502	502	502	502	454		916
.220	3/8	10	22400	3.875	98.4	403	454	502	502	502	502	502	502	502	454	916
		12	22500	3.875	98.4	403	454	502	502	502	502	502	502	502	502	916

¹ Factored resistances shown have been developed in accordance with 12.11 CSA 086-14 based on testing per ICC-ES AC233. Apply the adjustment factors Kd, Ksf and Kt as per 15.2.2 where applicable. Do not install in end grain.

STANDARD RSS SCREW (SIZE 3/8" OR LTF)

	GEOMETRY	MINIMUM DIA	MENSIONS (in)
		D. FIR-L	S-P-F
Α	Spacing parallel to grain	6.0	5.0
В	End distance parallel to grain	5.0	3.0
С	Spacing perpindicular to grain	3.0	2.5
D	Edge distance perp to grain	1.5	1.0

¹ Additional screws may be staggered diagonally between rows.



D-Fir Larch Spacing Requirements¹

² Factored withdrawal resistances shown are only applicable to short term loads as per 12.11.5 CSA 086-14

³ Factored withdrawal resistances shown assume the entire threaded portion of the screw is installed into the main member.

⁴ Minimum spacing, edge and end distances shall be in accordance with 12.9.2.1 CSA 086-14 using the corresponding shank diameter. See table below.

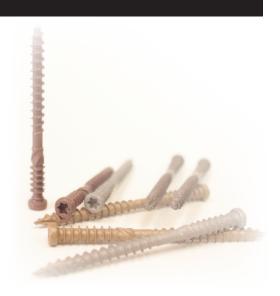
⁵ Divide table value by 224.8 to convert to kN (1Kn = 224.8 lbs)



Kameleon

Composite Deck Screws

Heads Blend in with Decking. No Mushrooming Effect



APPROVALS/LISTING



DESCRIPTION/SUGGESTED SPECIFICATIONS

Composite Deck Screws—

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 fibre traps on each ring designed to trap fibres and eliminate the mushroom effect.

<u>Über</u>Grade™

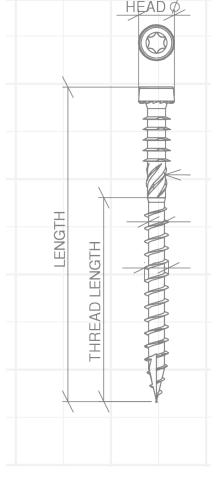


The CEE Thread feature enlarges the screw hole allowing the composite decking to settle easily, increases the screw's drawing strength, and reduces the friction on the screw shank, which can result in lowering the overall driving torque.

The Kameleon™ is also available in many different colors including: Grey, Sand, Tan, Brown, Redwood, and Pebble Grey.

- 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.
- Fibre Trapping Rings: are designed to prevent mushrooming and dimpling.
- 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; both composite and PVC decking.





Kameleon[™] **Composite Deck Screws**

SELECTION CHART



Grey
Tan
Brown

U.S. (STD.) SIZE (DIA. X LENGTH)	METRIC SIZE (DIA. X LENGTH)	HANDY-PAK Part no.	HANDY-PAK CTN. SIZE/QTY.
#9 x 2-1/2"	4.5 x 63	67151	M/100
#9 x 2-1/2"	4.5 x 63	67155	M/100
#9 x 2-1/2"	4.5 x 63	67158	M/100





Fin/Trim[™]

Finishing Trim
Head Screws

Smallest Head on the Market for a Clean Finish



APPROVALS/LISTING



DESCRIPTION/SUGGESTED SPECIFICATIONS

Finishing Trim Head Screws—

GRK's Trim™ Head screws are an excellent choice for most fine carpentry applications, as well as window extension jambs 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).

ÜberGrade™

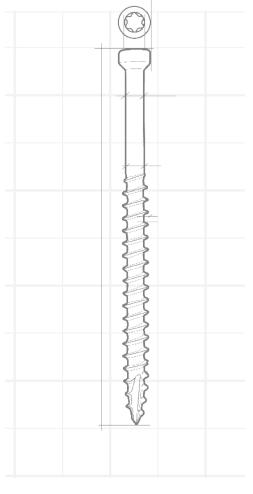


Most material splitting is prevented because of the Trim™ Head screw's exceptionally small head and the W-Cut thread design.

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

- 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 AC257 code approved for use in treated lumber.
- For interior/exterior use.
- Available in Climatex[™] or white powder coated finish.





Fin/Trim[™] Finishing Trim Head Screws

SELECTION CHART



U.S. (STD.) SIZE (DIA. X LENGTH)	(DIA. X LENGTH)	BULK PART NO.	BULK BOX QTY.	PRO-PAK PART NO.	PRO-PAK PAIL QTY.	PART NO.	CTN. SIZE/QTY.
#8 x 1-1/4"	4.0 x 30					17720	S/100
#8 x 1-1/2"	4.0 x 40					17724	S/100
#8 x 2"	4.0 x 50					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			17734	M/100
#9 x 3-1/8"	4.5 x 80	15756	1,900				
#9 x 4"	4.5 x 100	15760	1,000			17760	M/100
#9 x 5"	4.5 x 125					17766	M/100



Excellent for all of your trimwork and fine carpentry finishing.







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



 RT^{**}

Composite Exterior
Trim Screws

Reverse Thread
Design Prevents
Mushrooming



APPROVALS/LISTING



DESCRIPTION/SUGGESTED SPECIFICATIONS

Exterior Trim Screws—

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.

ÜberGrade™

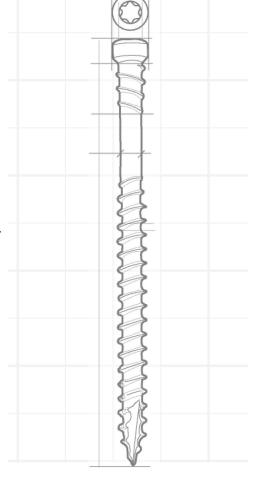


Based on extensive tests, GRK has found that the reverse thread helps the screw head disappear beneath the surface of the classic wood composite material, reducing or eliminating the dimple that sometimes appears when using the FIN/Trim™ screw.

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.

- 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, Kleer, Koma), no pre-drilling is necessary. Climatek™ coated screws work well with CAMO system.
- Available in Climatex™ or white powder coated finish.







RT Composite[™] **Exterior Trim Screws**

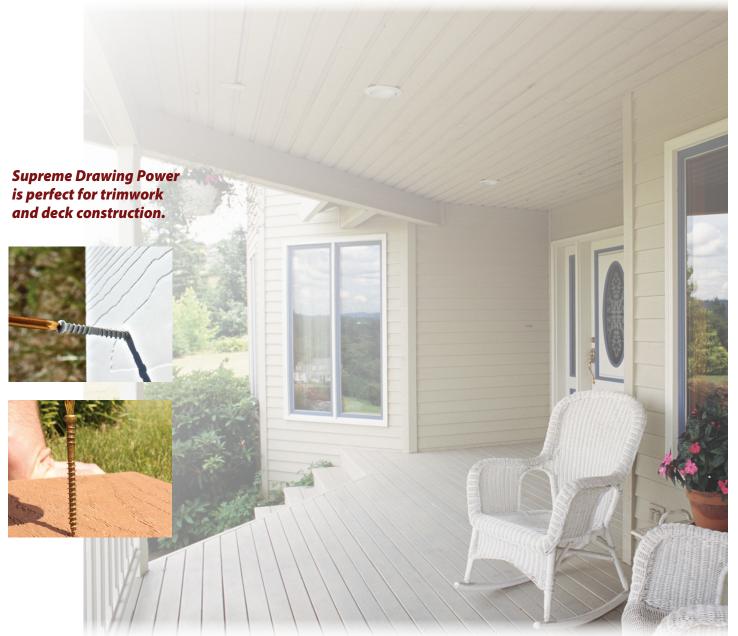
SELECTION CHART







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 2"	4.0 x 50					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				
#9 x 3-1/8"	4.5 x 80	15105	1,900				
WHITE RT COMPOSIT	E™						
#8 x 2-1/2"	4.0 x 63					17630	S/100



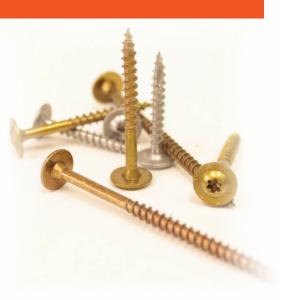
NOTE: Pro-Paks need to be ordered in multiples of two. 2" bit included in Pro-Paks, 1" bits in Handy-Paks.



Low Profile™

Low Profile Cabinet[™] Screws

Built-in Washer Head Presses Flush Against any Material



APPROVALS/LISTING



DESCRIPTION/SUGGESTED SPECIFICATIONS

Cabinet Screws—

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.

<u>Über</u>Grade™

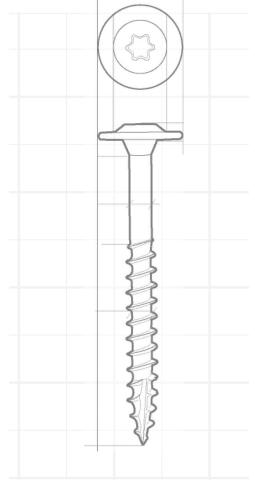


Builders have discovered that short Cabinet[™] screws can sometimes be used in vinyl siding installation, which makes this fastener ideal for both interior and exterior applications.

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.

- 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.



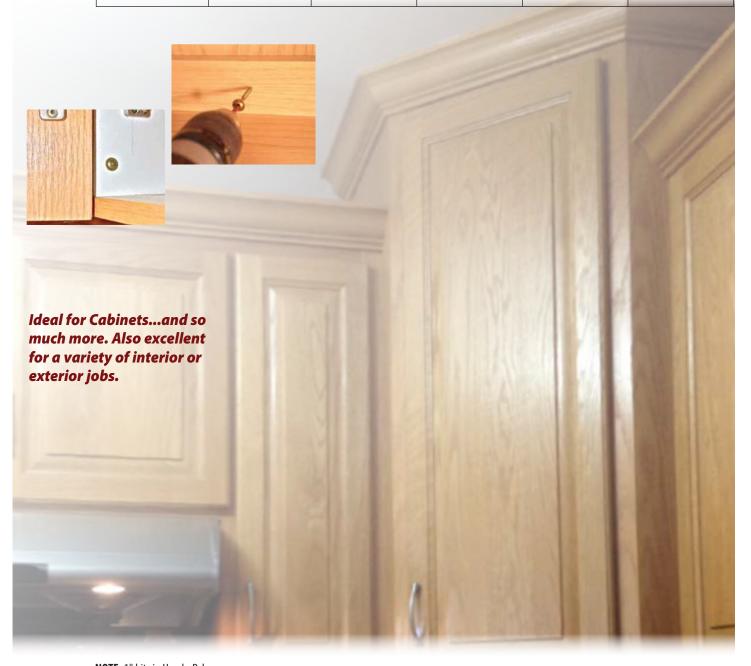


Low Profile Cabinet[™] **Screws**

SELECTION CHART



U.S. (STD.) SIZE (DIA. X LENGTH)	METRIC SIZE (DIA. X LENGTH)	BULK Part no.	BULK BOX QTY.	HANDY-PAK PART NO.	HANDY-PAK CTN. SIZE/QTY.
#8 x 1"	4.0 x 25			12067	S/100
#8 x 1-1/4"	4.0 x 30	10069	4,000	12069	S/100
#8 x 1-1/2"	4.0 x 40			12073	M/100
#8 x 1-3/4"	4.0 x 45			12075	M/100
#8 x 2"	4.0 x 50			12077	M/100
#8 x 2-1/2"	4.0 x 63			12079	M/100



NOTE: 1" bits in Handy-Paks.



Top Star[™]

Adjustable Shim Screws

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



DESCRIPTION/SUGGESTED SPECIFICATIONS

Adjustable Shim Screws—

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.

<u>Über</u>Grade™



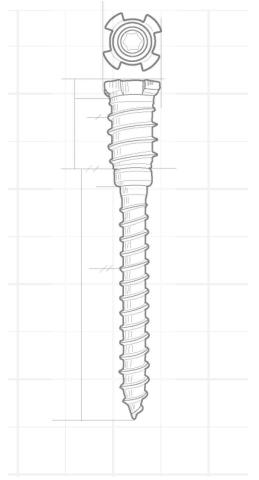
The quick and easy system reduces labour and allows for hassle free adjustment to ensure plumb installation.

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.

- Recessed Star Drive: Zero Stripping, with 6 points of contact.
- 4-point 3/8" diameter Threaded Sleeve provides a secure hold on 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.





SELECTION CHART

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.
3/8" x 2-1/2"	6.0 x 63	20157	100	24050	6
3/8" x 3-1/8"	6.0 x 80	20161	100	24100	6
CROWN / BIT					
Includes: (1) Crov	wn / 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**





1

2



Caliburn[™]

Concrete Screws

Heavy Duty Concrete and Masonry Fastener



APPROVALS/LISTING



DESCRIPTION/SUGGESTED SPECIFICATIONS

Concrete Screws—

Cailburn™ 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.

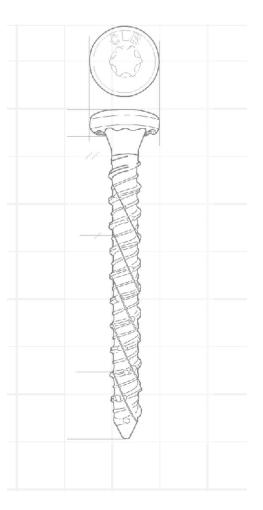
ÜberGrade™



Caliburn's uncompromised draw and pullout 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.

- 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.
- 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.







SELECTION CHART



T-30





T-40

U.S. (STD.) SIZE (DIA. X LENGTH)	METRIC SIZE (DIA. X LENGTH)	HANDY-PAK Part no.	HANDY-PAK CTN. SIZE/QTY.
1/4" x 1-3/4"	6.0 x 45	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
CALIBURN™ PH			
1/4" x 2-1/4"	6.0 x 55	57831	M/50
CALIBURN™ XL			
19/64" x 2-3/4"	7.5 x 70	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

1" bits in Handy-Paks.

























BIT SIZE	BIT COLOUR	FITS	CARDED PART NO.	CARDED QTY/PER PACK	BOX PART NO.	QTY/BOX
T-10 2"	yellow	Trim™ Head #8	87419	2	86419	1,000
T-15 2"	R4™ Screw #6 & 8 Trim™ Head #9 Cabinet™ Screw Vinyl Window #8		87427	2		
T-20 2"	purple	Kameleon™ Screws	87435	2		
T-25 2"	green	R4™ #9,10 &12, Caliburn™, Caliburn PH™, RSS™ #10 & 1/4"	87443	2	86443	1,000
T-30 2"	black	RSS™ Structural Screw 5/16" & 3/8", Caliburn™ & Caliburn PH™	87451	2	86451	1,000
T-40 2"	blue	Caliburn XL™ Screws RSS™ Structural Screw 3/8"	87459	2	86459	1,000
ROWN/BIT						
		TOP STAR™	86465	1		

High Impact Merchandisers Designed to Drive Sales

Displays are free with qualifying order.

Universal Display:

Heavy Duty Rack Display:

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





RSS™ Technical Fastener Data

PERFORMANCE TABLES



TABLE 1: RSS™ FASTENER SPECIFICATIONS

	FASTENER	OVERALL	LENGTH OF	MINOR	SHANK	OUTSIDE	ALLO	WABLE STEEL STREN	IGTH			
	DESIGNATION	LENGTH¹ (INCHES)	THREAD ² (INCHES)	THREAD DIAMETER ³ (INCHES)	DIAMETER ³ (INCHES)	THREAD DIAMETER ³ (INCHES)	BENDING YIELD STRENGTH⁴ FYB (PSI)	TENSILE (LBF)	SHEAR (LBF)			
	1/4 x 2-1/2"	2-3/8	1-1/2									
	1/4 x 2-3/4"	2-3/4	1-3/4	0.153	0.160	0.226	170 400	1 112	754			
	1/4 x 3-1/8"	3-1/8	2	0.152	0.169	0.236	0.230	0.109 0.230	170,400	1,112	/54	
	1/4 x 3-1/2"	3-1/2	2-3/8									
	5/16 x 2-1/2"	2-3/8	1-1/2									
	5/16 x 2-3/4"	2-3/4	1-3/4									
	5/16 x 3-1/8"	3-1/8	2-1/8			0.276 190,900						
	5/16 x 3-1/2"	3-1/2	2-1/2	0.167	0.195		190,900	1,415	982			
	5/16 x 4"	3-7/8	2-3/4									
	5/16 x 5-1/8"	5	3-1/2									
RSS	5/16 x 6"	5-7/8	3-7/8									
	3/8 x 3-1/8"	3-1/8	2-1/8									
	3/8 x 4"	3-7/8	2-3/4									
	3/8 x 5-1/8"	5-1/8	3-1/2	0.191	0.101	0.101						
	3/8 x 6"	5-7/8	4				0.101					
	3/8 x 7-1/4"	7	4-1/2					0.101	0.101	0.210	0.313	179 000
	3/8 x 8"	7-7/8	4-3/8		0.219	0.219 0.313 178,000	178,000	1,941	1,231			
	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									
	3/8 x 8"	7-7/8	3-7/8									
	3/8 x 10"	9-7/8	3-7/8									
Ξ	3/8 x 12"	11-3/4	3-7/8	0.191	0.220	0.310	167,600	1,714	1,094			
	3/8 x 15"	14-3/4	3-7/8									
_	3/8 x 20"	19-5/8	3-7/8									
	1/4 x 3-3/8"	3-3/8	1-3/8									
SIL	1/4 x 5"	5	1-5/8	0.152	0.171	0.240	226,300	1,104	769			
	1/4 x 6-3/4"	6-3/4	1-1/2									

for S1: 1 inch = 25.4 mm; 1 psi = 6.9 kPa.



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

² Length of thread includes tip. See detailed illustration, Figure 1.

Minor thread, shank and outside thread diameters are shown in table without manufacturing tolerances.
 Bending yield strength determined in accordance with ASTM F 1575 using the minor thread diameter.

PERFORMANCE TABLES

TABLE 2: RSS™ WITHDRAWAL DESIGN VALUES (W)¹
[WITHDRAWAL VALUES (W) ARE IN POUNDS PER INCH OF THREAD PENETRATION INTO SIDE GRAIN OF MAIN MEMBER]

	FASTENER DESIGNATION WITHDRAWAL, W (LBS./IN.) AND DIAMETER Ø FOR SPECIFIC GRAVITIES OF:					
		0.42 ≤ G < 0.55	0.55 ≤ G < 0.67			
	Ø 1/4	151	186			
RSS	Ø 5/16	165	227			
	Ø 3/8	180	259			
LTF	Ø 3/8	163	216			
JTS	Ø 1/4	152	191			

for \$1: 1 inch = 25.4 mm

TABLE 3: RSS™ PULL-THROUGH DESIGN VALUES (P)¹
[PULL-THROUGH VALUES (P) ARE IN POUNDS PER INCH OF SIDE MEMBER THICKNESS]

	FASTENER DESIGNATION AND DIAMETER Ø		GH, P (LBS./IN.) GRAVITIES OF:
		0.42 ≤ G < 0.55	0.55 ≤ G < 0.67
	Ø 1/4	165	275
RSS	Ø 5/16	207	418
	Ø 3/8	196	351
LTF	Ø 3/8	202	373
JTS	Ø 1/4	154	372

for S1: 1 inch = 25.4 mm

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

¹ Fastener withdrawal was tested in accordance with ASTM D 1761.

² Withdrawal values (W) shall be multiplied by the length of thread penetration in the main member (including tip).

 $^{^{\}rm 1}~$ Fastener pull-through testing was performed in accordance with ASTM D 1037 with 3/4" thick side members.

RSS™ Technical Fastener Data

PERFORMANCE TABLES



TABLE 4: RSS™ LATERAL DESIGN VALUES (Z) FOR SINGLE SHEAR (TWO-MEMBER) CONNECTIONS¹ [FOR SAWN LUMBER OR SCL WITH BOTH MEMBERS OF IDENTICAL SPECIFIC GRAVITY]

	R SAWN LUMBER OR SCL WI FASTENER DESIGNATION	SIDE MEMBER THICKNESS	FASTENER PENETRATION			IE, Z (POUNDS) GRAVITIES OF:		
		T _S (INCHES):	<i>P</i> (INCHES)		i < 0.55			
		(menzs).	(IIICIIE)	PARALLEL TO GRAIN Z	PERPENDICULAR TO GRAIN, Z	PARALLEL TO GRAIN Z	PERPENDICULAR TO GRAIN, Z_	
	1/4 x 2-1/2"	3/4	1-5/8					
	1/4 x 2-3/4"	3/4	2	153	137	175	175	
	1/4 x 3-1/8"	3/4	2-3/8	155	137	1/3	173	
	1/4 x 3-1/2"	3/4	2-3/4					
	5/16 x 2-1/2"	3/4	1-5/8					
	5/16 x 2-3/4"	3/4	2	440	422		470	
	5/16 x 3-1/8"	3/4	2-3/8	168	133	214	178	
	5/16 x 3-1/2"	3/4	2-3/4					
	5/16 x 4"	1-1/2	2-3/8		224			
	5/16 x 5-1/8"	1-1/2	3-1/2	239	239 236	333	257	
RSS	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					
	3/8 x 5-1/8"	1-1/2	3-5/8	224	205	274	264	
	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					
	3/8 x 10"	3-1/2	6-1/4					
	3/8 x 12"	3-1/2	8-3/8	423	291	593	304	
	3/8 x 14-1/8"	3-1/2	10-5/8					
	3/8 x 16"	3-1/2	12-1/8					
	3/8 x 8"	4	3-7/8					
	3/8 x 10"	6	3-7/8	433	315	556	402	
Ξ	3/8 x 12"	8	3-3/4					
	3/8 x 15"	11	3-3/4					
	3/8 x 20"	16	3-5/8	N/A	N/A	N/A	N/A	
	1/4 x 3-3/8"	1-3/4	1-5/8	157	168	217	217	
SIL	1/4 x 5"	1-3/4	3-1/4	4-1-	200	2.5		
	1/4 x 6-3/4"	1-3/4	5	168	221	241	237	

for S1: 1 inch = 25.4 mm

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



¹ Lateral load testing was performed in accordance with ASTM D 1761.

PERFORMANCE TABLES

TABLE 5: CONNECTION GEOMETRY

CONNECTION GEOMETRY/CRITERIA	DIAMETERS ¹	RSS, JTS & <i>PHE</i> INOX 1/4" NOMINAL DIAMETER (INCHES)	RSS & <i>PHE</i> INOX 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 AND 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 ²	1-1/8	1-1/4	1-3/8

for S1: 1 inch = 25.4 mm

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

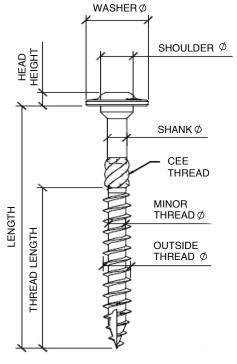


FIGURE 1 - FASTENER DIMENSIONS

SCREW TYPE	HEAD STAMP	WASHER Ø ± 0.020	HEAD HEIGHT ± 0.010	SHOULDER Ø ± 03010	CEE THREAD ²
RSS 1/4 (6.0 mm)		0.533	0.110	0.244	LENGTH ≥ 3-1/8"
RSS 5/16 (7.0 mm)		0.620	0.157	0.301	LENGTH ≥ 3-1/8"
RSS 3/8 (8.0 mm)		0.689	0.181	0.364	LENGTH ≥ 3-1/8"
LFT 3/8 (8.0 mm)		0.688	0.181	0.364	LENGTH ≥ 3-1/8"
JTS 1/4 (6.3 mm)		0.534	0.090	0.244	LENGTH ≥ 5"

NOTES:

- 1. See table 1 for overall length, thread length, shank diameter, outside thread diameter and minor thread diameter.
- 2. CEE thread on screws with lengths greater than or equal to those indicated, not used for calculations

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

R4[™], Trim[™], Kameleon[™] Technical Fastener Data

PERFORMANCE TABLES



TABLE 1: FASTENER SPECIFICATIONS

FASTENER DESIGNATION		OVERALL	LENGTH OF	MINOR THREAD DIAMETER ³ (INCHES)	SHANK DIAMETER³ (INCHES)	OUTSIDE	ALLOWABLE STEEL STRENGTH		
		LENGTH ¹ (INCHES)	THREAD ² (INCHES)			THREAD DIAMETER ³ (INCHES)	BENDING YIELD STRENGTH ⁴ Fyb(PSI)	TENSILE (PSI) [POUNDS]	SHEAR (PSI) [POUNDS]
	9 x 2"	2	1-1/4						
	9 x 2-1/2"	2-3/8	1-5/8	0.117	0.130	0.174	158,800 143,590	61,760	39,660
	9 x 2-3/4"	2-3/4	1-7/8	0.117	0.130			[627]	[428]
	9 x 3-1/8"	3-1/8	2-1/8						
	10 x 2-1/2"	2-3/8	1-5/8						
	10 x 2-3/4"	2-3/4	1-7/8						
	10 x 3-1/8"	3-1/8	2-1/8	0.128	0.142			62,640	44,520
	10 x 3-1/2"	3-1/2	2-3/8	0.126				[846]	[542]
	10 x 4"	3-7/8	2-5/8						
	10 x 4-3/4"	4-5/8	3						
R ₄	12 x 2-1/2"	2-3/8	1-1/2	0.153	0.172	0.238	134,280		
Š	12 x 2-3/4"	2-3/4	1-3/4						
	12 x 3-1/8"	3-1/8	2-1/8						
	12 x 3-1/2"	3-1/2	2-3/8						
	12 x 4"	3-7/8	2-5/8					60,580	38,610
	12 x 4-3/4"	4-5/8	3						
	12 x 5-5/8"	5-1/2	3					[1,134]	[655]
	12 x 6-3/8"	6-1/4	3						
	12 x 7-1/4"	7	3						
	12 x 8"	7-7/8	2-5/8						
	12 x 10"	9-3/4	2-3/4						
ŀ	12 x 12"	11-3/4	2-3/4						
	8 x 2-1/2"	2-3/8	1-1/2	0.106	0.116	0.160	148,410		
	8 x 2-3/4"	2-3/4	1-7/8					56,580 [490]	40,000 [360]
Į	8 x 3-1/8"	3-1/8	2-1/8	1				[499]	[360]
TRIM	9 x 2-1/2"	2-3/8	1-5/8	0.114	0.128	0.176	147,280		
	9 x 2-3/4"	2-3/4	1-3/4					57,000 [576]	42,160 [425]
	9 x 3-1/8"	3-1/8	2-1/8	1				נסיכו	[423]
~	9 x 2-1/2"	2-1/2	1-5/8			0.177	160,210		
KAMFI FON	9 x 2-3/4"	2-3/4	1-3/4	0.119	0.134			57,490 [634]	37,870 [437]
FON	9 x 3-1/8"	3-1/8	2-1/8	1				[624]	[43/]

for S1: 1 inch = 25.4 mm; 1 psi = 6.9 kPa.

 $^{^{\}rm 1}\,$ Overall length of fastener is measured from the top of the head to bottom of the tip. See Figure 1.

² Length of thread includes tip. See detailed illustration, Figure 1.

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

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

PERFORMANCE TABLES

SCREW TYPE	HEAD Ø	CEE-THREAD
R4 - #9 (4.5 mm)	0.328 ± 0.006	LENGTH = > 2"
R4 - #10 (5.0 mm)	0.368 ± 0.006	LENGTH = > 2"
R4 - #12 (6.0 mm)	0.439 ± 0.010	LENGTH = > 2"
TRIM - #8 (4.0 mm)	0.197 ± 0.006	N/A
TRIM - #9 (4.5 mm)	0.230 ± 0.006	N/A
KAMELEON - #9 (4.5 mm)	0.258 ± 0.006	ALL LENGTHS

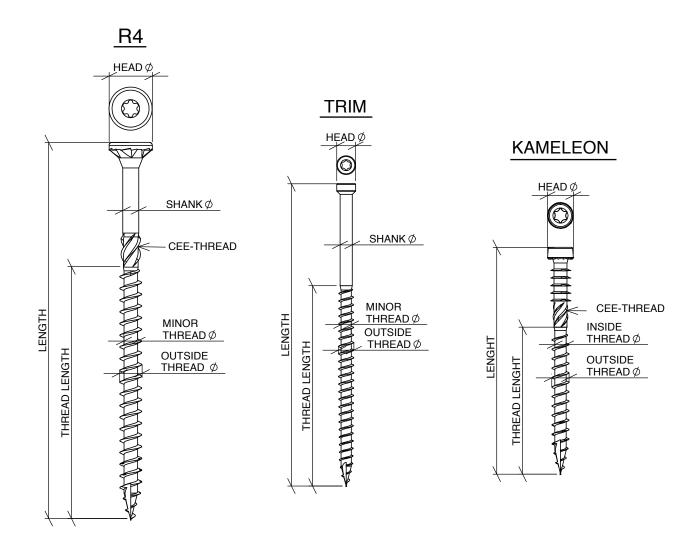


FIGURE 1 - FASTENER DIMENSIONS

NOTES:

- 1. 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.
- 3. Dimensions given if not otherwise stated are in inches (for SI 1 inch = 25.4 mm)



R4[™], Trim[™], Kameleon[™] Technical Fastener Data

PERFORMANCE TABLES



TABLE 2: DESIGN WITHDRAWAL VALUES (W)1

[TABULATED WITHDRAWAL VALUES (W) ARE IN POUNDS PER INCH OF THREAD PENETRATION INTO SIDE GRAIN OF MAIN MEMBER]

ı	FASTENER DESIGNATION	WITHDRAWAL, W (LBS./IN.) FOR SPECIFIC GRAVITIES OF:
		0.67
	# 9	179
R4	# 10	249
	#12	255
TRIM	#8	175
IM	# 9	221
KAMELEON	#9	186

for S1: 1 inch = 25.4 mm; 1 lbf/in = 175.127 N/m.

TABLE 3: DESIGN PULL-THROUGH VALUES (P)1

(TABULATED PULL-THROUGH VALUES (P) ARE IN POUNDS PER INCH OF SIDE MEMBER THICKNESS)

FASTENER DESIGNATION		PULL-THROUGH, <i>P</i> (LBS./IN.) FOR SPECIFIC GRAVITIES OF:		
		0.67		
	# 9	162		
R4	# 10	275		
	#12	407		
TRIM	#8	61		
M	# 9	94		
KAMELEON	#9	143		

for S1: 1 inch = 25.4 mm; 1 lbf/in = 175.127 N/m.

¹ Fastener withdrawal was tested in accordance with ASTM D 1761.

² Values must not be multiplied by any adjustment/safety factor.

¹ Fastener pull-through testing was performed in accordance with ASTM D 1037.

² Values must be multiplied by all applicable adjustment factors. (20.15 NDS Table 11.3.1)

Minimum side member thickness must be 3/4".

R4[™], Trim[™], Kameleon[™] Technical Fastener Data

PERFORMANCE TABLES

TABLE 4: REFERENCE LATERAL DESIGN VALUES (Z) FOR SINGLE SHEAR (TWO MEMBER) CONNECTIONS¹ [FOR SAWN LUMBER OR SCL WITH BOTH MEMBERS OF IDENTICAL SPECIFIC GRAVITY]

FASTENER DESIGNATION		THICKNESS, P		REFERENCE LATERAL ULTIMATE VALUE, Z (POUNDS) FOR SPECIFIC	
		T_S (INCHES)	(INCHES)	0.67	
		(INCILS)		PARALLEL TO GRAIN, Z	
	9 x 2"	3/4	1-1/8		
	9 x 2-1/2"	3/4	1-1/2]	
	9 x 2-3/4"	3/4	2	175	
	9 x 3-1/8"	3/4	2-3/8	1	
	10 x 2-1/2"	3/4	1-1/2		
	10 x 2-3/4"	3/4	2	1	
	10 x 3-1/8"	3/4	2-3/8	202	
	10 x 3-1/2"	3/4	2-3/4	203	
	10 x 4"	3/4	3-1/8		
	10 x 4-3/4"	3/4	3-7/8		
-	12 x 2-1/2"	3/4	1-1/2		
R4	12 x 2-3/4"	3/4	2		
	12 x 3-1/8"	3/4	2-3/8		
	12 x 3-1/2"	3/4	2-3/4		
	12 x 4"	3/4	3-1/8]	
	12 x 4-3/4"	3/4	3-7/8	242	
	12 x 5-5/8"	3/4	4-3/4	242	
	12 x 6-3/8"	3/4	5-1/2		
	12 x 7-1/4"	3/4	6-1/4		
	12 x 8"	3/4	7		
	12 x 10"	3/4	9		
	12 x 12"	3/4	11		
	8 x 2-1/2"	3/4	1-1/2		
	8 x 2-3/4"	3/4	2	84	
TRIM	8 x 3-1/8"	3/4	2-1/2		
₹	9 x 2-1/2"	3/4	1-1/2		
	9 x 2-3/4"	3/4	2	104	
	9 x 3-1/8"	3/4	2-3/8		
ΚA	9 x 2-1/2"	3/4	1-5/8		
KAMELEON	9 x 2-3/4"	3/4	1-7/8	159	
8	9 x 3-1/8"	3/4	2-3/8		

for S1: 1 inch = 25.4 mm

¹ Lateral load testing was performed in accordance with ASTM D 1761.

² Values must be multiplied by all applicable adjustment factors. (20.15 NDS Table 11.3.1)





LIABILITY AND WARRANTIES

GRK Fasteners[™] is a distributor of commercial grade fasteners. Conformance to "IFI" specifications is formally requested from our suppliers. The parts that we supply are quality inspected by independent labs.

We maintain lot traceability on all products listed in this catalog as long as they are in their original bulk boxes. Certifications are maintained on all fasteners.

Hydrogen Embrittlement: We require our platers and suppliers of plated fasteners to bake case hardened parts to "IFI" specifications. However, this process does not guarantee that hydrogen embrittlement will not still be present after baking or that it will not occur at a later date while in service. Specialized testing or a substitute part may be required, depending on the application.

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