



# R4

MULTI PURPOSE



PHE

- self-tapping
- self-countersinking head
- patented head & thread
- NO predrilling
- NO stripped heads
- 59 sizes available
- 3/8" to 12"

GRK's R4™ Self-Countersinking screw has six self-contained cutting pockets which act like a router and transport the "drill dust" away from the edge of the screw hole. They also widen the countersink hole only around the head shape. The screw head top closes the hole exactly, leaving no damaged fibers around the wider area of the head.

**MULTI-PURPOSE USE**  
wood, particleboard, plastic, sheet metal, cement fiber board, wood decking.

SHEAR TEST RESULT FOR R4™			
#4	139 lb	#9	452 lb
#6	301 lb	#10	687 lb
#8	361 lb	#12	720 lb

Test stopped after wood failure or 1/8" screw displacement.

All tests were conducted at independent laboratories in the United States, Germany and Taiwan. Tests ASTM D 1761 Lateral Resistance/Slip, Wood to Wood connection. Wood failed in majority of tests prior to screw failure. Tests conducted in SPF. Please note, the above stated values are ultimate loads. For construction design purposes and safety margins please contact your architect or engineer.

Screw penetration only with lengths of thread of R4™ and RSS™ screw as required by ASTM.

All data are average ultimate load values.



# RSS

STRUCTURAL

- sharp threads & points
- built-in washer
- Climatek™ coated
- case-hardened steel
- ICC-ES Report #5883
- 1 1/2" to 16"

PHE

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). The smaller shank reduces the possibility of splitting.

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

The #30 Star Drive will deliver approximately 650 lbs of energy, eliminating the need to drill a pilot hole.

Best of all, the RSS™ screw may be used as a lag screw replacement.

SHEAR TEST RESULT FOR RSS™	
5/16 x 2 1/2"	377 kg/829 lb
5/16 x 3 1/8"	385 kg/847 lb
5/16 x 4"	604 kg/1328 lb
5/16 x 5 1/8"	605 kg/1331 lb
5/16 x 6"	607 kg/1335 lb
3/8 x 7 1/4"	583 kg/1282 lb
3/8 x 8"	630 kg/1386 lb
3/8 x 10"	684 kg/1504 lb
3/8 x 12"	864 kg/1900 lb
3/8 x 14 1/8"	890 kg/1958 lb
3/8 x 16"	939 kg/2065 lb



# RSS

TECHNICAL



**PULL OUT TEST RESULTS FOR RSS™**

	SIDEGRAIN	ENDGRAIN
5/16 x 2 1/2"	791 kg/1740 lb	556 kg/1223 lb
5/16 x 3 1/8"	934 kg/2054 lb	1055 kg/2321 lb
5/16 x 4"	1202 kg/2644 lb	1166 kg/2565 lb
5/16 x 5 1/8"	1248 kg/2745 lb	1286 kg/2829 lb
5/16 x 6"	1645 kg/3619 lb	1601 kg/3522 lb
3/8 x 7 1/4"	1801 kg/3962 lb	1782 kg/3920 lb
3/8 x 8"	1984 kg/4364 lb	2119 kg/4661 lb
3/8 x 10"	2200 kg/4840 lb	2320 kg/5104 lb
3/8 x 12"	2390 kg/5258 lb	2293 kg/5044 lb
3/8 x 14 1/8"	2412 kg/5306 lb	2351 kg/5172 lb
3/8 x 16"	2723 kg/5990 lb	2615 kg/5753 lb

Test stopped after wood failure or 1/8" screw displacement.

**HEAD PULL THROUGH TEST RESULTS FOR RSS™**

5/16" screws	avg. 825 lbs	3/8" screws	avg. 889 lbs
Shaft diameter	0.198"	Shaft diameter	0.220"
Head diameter	0.616"	Head diameter	0.711"

Test stopped after wood failure or 1/8" screw displacement.

**MINIMUM TENSILE STRENGTH**

GRK Spec.	139,000 PSI	Code Spec.	45,000 PSI
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**BENDING YIELD MOMENT TEST FOR RSS™**

5/16"	159,073 PSI	3/8"	177,241 PSI
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**MINIMUM BENDING ANGLE**

GRK Spec.	35 degrees	Industry Spec.	15 degrees
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**GRK CERTIFICATIONS**

ISO 9001 - 2000  
ICC / NES REPORT #5883  
Ü - German Institute for Building Technology



# LPS

LPS

- LOG & TIMBER FRAME
- LOAD PANEL SCREW
- Climatek™ coated
- case-hardened steel
- built-in washer
- 6" to 20"



\*CEE THREAD

LPS

LTF

**LTF**  
The LTF is perfect for all Timber Frame and Log Home construction, exceptionally strong and does not require pre-drilling.

The exclusive **CEE thread** widens the screw hole to allow logs to settle, eliminates the need for washers as required by common lag screws.

Head can be countersunk 1-3" without pre-drilling a countersinking hole.

**LPS**  
Ideal for Structural Insulated Panels, the LPS has an exceptionally strong, patented, low-profile, washer type head, which applies superior hold-down pressure to the panel.

Very sharp patented threads provide fast and easy one-step installation.

Allows for complete and easy removal without damage to material.



# TRIM HEAD

- composite decks
- for all trim applications
- strong heads and star head recess
- NO pre-drilling



PHE

The FIN/Trim™ and RT™ screws are excellent choices for most fine carpentry applications. The FIN/Trim™ is ideal for the installation of window extension jambs while the RT™ is recommended for composite decking projects.

The FIN/Trim™ and RT™ both feature small heads and GRK's W-Cut™ thread design and Zip-Tip™, preventing most material splitting. Corrosion protection is provided with GRK's Climatek™ coating.

Available sizes:  
RT™: 2" to 3 1/8" / FIN/Trim™: 1 1/4" to 5"  
White RT™: 2" to 2 3/4" / White FIN/Trim™: 2" & 2 1/2"



# TOPSTAR

SHIM SCREW

- great for fine adjustments
- NO hassles
- reduces labor
- conventional shim replacement
- 2 1/2" to 16"



GRK's adjustable screw – the Top Star™ – reduces labor substantially for the installation of wooden window and door frames, insulation and panelling, built-in wall units/cabinets. Our product is perfectly suited to meet both professional and do-it-yourself needs. Fine adjustments are possible in both directions and will help reduce workload, making the job easier for one person.



# CABINET

- self-tapping
- W-Cut™ thread design
- Climatek™ coated
- 1 1/4" to 3 1/8"

PHE

GRK's Cabinet™ screws were designed specifically for uses in cabinet construction and installation. Manufactured in a #8 gauge (4 mm) diameter.

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

Builders have also discovered new uses, e.g., Cabinet™ screws are good for vinyl siding installation.



# VINYL WINDOW

- Washer-head design
- W-Cut™ thread design
- Climatek™ coated
- Edge design under the head
- 1 1/2" to 2 1/2"

The patented Vinyl Window Screw makes setting vinyl windows a breeze. It allows the installer to easily adjust a window to plumb.

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



# CALIBURN CONCRETE SCREW

**NEW PRODUCT!** ■ PROFESSIONALLY ENGINEERED ■

## CALIBURN XL™

- 19/64" X 2 3/4"
- 19/64" X 3 1/2"
- 19/64" X 5"

## CALIBURN PH™

- 1/4" X 1 3/4"
- 1/4" X 2 1/4"

## CALIBURN™

- 1/4" X 1 3/4"
- 1/4" X 2 1/4"
- 1/4" X 2 3/4"
- 1/4" X 3 1/2"

TECHNICAL DATA					
SCREW SIZE	EMBED. DEPTH (in.)	2000 psi CONCRETE		BIT SIZE	DRILL SIZE
		Tension/Pullout lbs	Shear lbs		
1/4 X 1 3/4	1 1/2	1655	1505	T25	3/16
1/4 X 2 1/4	2	2120	2055	T25	3/16
19/64 X 2 3/4	2 1/2	2209	3135	T40	1/4
19/64 X 3 1/2	3 1/4	2523	3200	T40	1/4
19/64 X 5	4 3/4	5724	3300	T40	1/4

**NOTE:**

- All values are based on close tolerance holes drilled a minimum of 1/4" deeper than embedment depth, using GRK drill bits.
- All listed values are average pullout and shear values for GRK's CALIBURN™, CALIBURN PH™ and CALIBURN XL™ screws. Values will vary depending on a number of factors, including the quality of the concrete and size of the drill hole.
- These figures are only offered as a guide, are not guaranteed by GRK and not reduced by any safety factor.
- For safety factor requirements in your area, contact your local building official architect or engineer. Testing was performed according to ASTM standard E-488-96. For technical specifications (shear & tension) visit our website... [www.grkfasteners.com](http://www.grkfasteners.com).

ACQ COMPATIBLE  
TREATED WOOD PRODUCTS

**Screw it,  
it works!**

**The Revolutionary Screw for Masonry Applications.**

## DESIGN FEATURES

### R4™ SELF COUNTERSINKING

- sinker integrated in the countersunk head
- 6 self-contained cutting pockets act like a circular saw blade

- cutting pockets transport the "drill-dust" away from the edge of the screw hole. They also widen the countersink hole only around the head shape
- screw head closes the hole exactly, leaving no damaged fibers around the wider area of the head
- pre-countersinking is no longer required, it is done by the screw itself
- head has a 90 degree angle at the underside which allows it to fit perfectly into the pre-countersunk holes of hardware fittings such as hinges or locks.

### W-CUT™ & ZIP-TIP™

**NO pre-drilling / NO hassles / NO strip drive strong heads / reduced splitting / easy start**

The W-Cut™ is a patented thread design which acts like a circular saw blade, cutting through any fibrous materials with ease. This unique design reduces the amount of torque required to install the screw and maintains a high pull-out strength. By cutting through rather than pressing fibers aside, the W-Cut™ also reduces material splitting.

The W-Cut™ design is available on all GRK screws 1 1/4" and longer, except Top Star. GRK's Zip-Tip™ is designed for fast starts in all fibrous materials.

### STAR-HEAD

All GRK screws have a star-head design. This recess increases the holding power of the bit and makes it virtually impossible to strip the head.

## CLIMATEK

triple zinc polymer  
long-life exterior coating  
corrosion inhibitor



The revolutionary Climatek™ coating is featured exclusively on GRK products. With a gold coated appearance it is the only such plating that offers rust protection of 29 Kesternich cycles. Climatek is ideal for your outdoor projects.

Climatek™ Gold matches nicely with virtually all woods and other surfaces. Eliminate unsightly green, grey or black screw heads without reducing your rust protection. Once installed into a surface, GRK screws are almost indistinguishable from brass screws. This high-class appearance will certainly add to the beauty of your project.

Limited LIFETIME WARRANTY to original retail purchaser. Non-transferable. For warranty details see [www.grkfasteners.com](http://www.grkfasteners.com)

## PHEINOX

stainless steel

rust free

R4™ / RSS™ / Trim Head™ / Cabinet™ / Pan



PHEINOX™ stainless steel screws are another first from GRK. PHEINOX™ screws provide a reasonably priced alternative when only stainless steel will do.

Our special composition PHE stainless steels is one of a kind. It is hardened and rust free.

GRK's patented R4™, RSS™, Trim™, Cabinet™ and Pan screws are available in PHEINOX™ stainless steel. For projects that should last a lifetime, use PHEINOX™ screws from GRK.

## MSS

METAL SIDING/ROOFING

inside recess  
powder coated in many colors  
NO pre-drilling  
steel to wood or steel to steel construction



1" to 2 1/2"

The MSS™ was developed and patented based on the RSS™ model. The screw has an integrated (concave) head that sets the underneath washer into itself, protecting the washer from exposure to the sun. No pre-drilling is needed due to the MSS™ multiple tip designs for thin sidings as well as thick studs. The MSS™ is available in different colors to match siding appearance and is powder coated for exceptionally high corrosion resistance.

**for complete info & dealer locations  
log-on to the GRK website  
[www.grkfasteners.com](http://www.grkfasteners.com)**

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web site [www.grkfasteners.com](http://www.grkfasteners.com)

# GRK



introducing...

**CALIBURN,  
CALIBURN XL &  
CALIBURN PH**

**The Revolutionary Masonry Screw**