FULL-LINE CATALOG

THE POWER OF ONE

YOUR PREMIUM FASTENING SOLUTION

Paslode®
GRK FASTENERS™
Tapcon® GENUINE Concrete Screw Anchors
BACKER-ON® ROCK-ON®
Ramset®
Teks® THE ORIGINAL
RED HEAD®
E-Z Ancor

Paslode®

paslode.com

GRK FASTENERS™

grkfasteners.com

Tapcon® GENUINE Concrete Screw Anchors

tapcon.com

BACKER-ON®
ROCK-ON®

backeronrockon.com

Ramset®

ramset.com

Teks® THE ORIGINAL

teksscrews.com

RED HEAD®

redheadanchoring.com

E-Z Ancor

easyanchors.com

Table of Contents

REPUTATION IS EVERYTHING

INNOVATION.

Innovation in the nailer category doesn't just happen. You have to work at it. Paslode has over 80 years of experience, learning and perfecting every step of the way. You could say we invented the nailer. And you would be right. Ever since we introduced the first pneumatic nailer, cordless framing nailer, and Positive Placement® metal connector system we've continued to improve our nailers and fasteners to be the best in the business. Today, Paslode's latest innovations continue to help people in the trades get the job done right.

QUALITY.

Paslode is committed to one thing. Excellence. We stand by our products above all else. Every Paslode product is engineered with expertise and battle-tested for real-world toughness before it leaves our factory. Our decades of expertise in tool and nail manufacturing help us deliver products that stand up to the demands of the guys who use them. Each nailer we make has thousands of nails fired through it to test its limits and make sure it performs when our customers need it.

REPUTATION.

Nail by nail. Job by job. Day after day. We build our reputation the same way our customers do—one day at a time through hard work, reliability, and dedication. That's how Paslode became the standard by which other pneumatic and cordless fastening systems are measured. Our products are the go-to tools for professionals for framing, sheathing, trim and finish applications, fencing, floor and roof decking, siding, and insulation.

	Fuel-Powered Cordless Tools				Pneumatic Tools												
Application	30° Li-ion Framing CF325X	16ga Angled Li-ion Finish IM250ALi	16ga Straight Li-ion Finish IM250SLi	18ga Brad IM200Li.2, IM200Li	Power Master™ Plus F350-S	Power Master™ Pro F-350P	Power Framer™ PF350-S	Positive Placement® Metal Connector Nailer F250S-PP	Positive Placement® Metal Connector Nailer PF250S-PP	Positive Placement® Metal Connector Nailer PF150S-PP	Positive Placement® Metal Connector Nailer F150S-PP	16ga Angled Finish/Trim T250A-F16	16ga Straight Finish/Trim T250S-F16P, T250S-F16	18ga Brad T200-F18P, T200-F18	16ga Wide Crown Stapler WCS200, S200-W16	16ga Standard Crown Stapler SCS200, S200-S16	CapStapler CS150
Framing																	
Exterior Walls	•				•	•	•										
Interior Walls	•				•	•	•										
Rafters	•				•	•	•										
Joists	•				•	•	•										
Metal Hardware								•	•	•	•						
Headers	•				•	•	•										
Blocking	•				•	•	•										
Bridging	•				•	•	•									•	
Floor Decks	•				•	•	•										
Roof Decks	•				•	•	•									•	
Punchout	•				•	•	•										
Assembly/Sheathing																	
Plywood	•				•	•	•								•	•	
Gypsum Wallboard															•		
Soft Wall															•	•	
Polysterene															•		
Lathing															•	•	
Soffits	•			•												•	
Fascias	•			•												•	
Trim/Finish																	
Bead Paneling		•	•	•								•	•	•			
Baseboards		•	•	•								•	•	•			
Crown Molding		•	•	•								•	•	•			
Cap and Shoe		•	•	•								•	•	•			
Door and Window Jambs		•	•	•								•	•	•			
Door and Window Casings		•	•	•								•	•	•			
Chair Rail Molding		•	•	•								•	•	•			
Roofing																	
Roofing Felt															•		•
Asphalt/Fiberglass Shingles															•		
Cedar Shingles	•				•	•	•										
Siding/Exterior																	
Housewrap															•		•
Wood	•				•	•	•										
Cedar and redwood	•				•	•	•										
Hardboard	•				•	•	•										
Vinyl																▲	
Exterior Fences	•				•	•	•									•	
Recreational Decks	•				•	•	•										

• Tool without shingle guide; ▲ With accessory for vinyl siding

Always check with local building codes for fastener compliance

CF325XP Cordless Li-ion Framing Nailer

15% More Power to drive nails flush

Works in All Seasons down to 14°F

9,000 shots per battery charge

1 YEAR FULL WARRANTY

FREE 2 YEAR CORDLESS SERVICE PROMISE NO QUESTIONS ASKED

Designed and Assembled in the U.S.A.

Tool Specifications	
Model	CF325XP
Part #	905600
Weight	7.20lbs w/battery
Nail Capacity	1 strip (48 nails)
Nail Range	2" - 3 ¼"
Nail Diameter	.113 / .120 / .131
Nail Type	30º Paslode RounDrive® Full Head 30° Paslode Clipped Head
Fuel Type	All-Season Fuel (part# 816008)
Nails per Fuel Cell	Approx. 1,200
Battery	Li-ion battery (part# 902654) and charger (part# 902667)
Battery Life	9,000 nails per charge
Warranty	1-year full coverage 5-year limited

Fuel + Nail Combo Packs:

Our industry leading fuel and nails in one convenient package

Note: 1,000 count cartons contain 1 fuel cell. 3,000 count cartons contain 3 fuel cells

PRO NAILING SYSTEM

FOR NON-STOP NAILING

*Features NEW! POWERBOOST black tip coating for consistent drive performance in LVL!

Cordless Framing Fuel + Nail Combo Packs					
Part #	**Length**	**Diameter**	**Shank**	**Finish**	**#/Box**
650564	2"	.113	Ring	HDG Plus	1,000
650526	2 3/8"	.113	Ring	HDG Plus	1,000
650522	2 3/8"	.113	Smooth	Brite	1,000
650523	2 3/8"	.113	Ring	Brite	1,000
650565	2 3/8"	.113	Ring	Brite	3,000
650527	3"	.120	Ring	*HDG Plus	1,000
650563	3"	.120	Smooth	*HDG Plus	1,000
650524	3"	.120	Smooth	*Brite	1,000
650631	3"	.120	Smooth	*Brite	3,000
650525	3"	.131	Smooth	*Brite	1,000
650566	3"	.131	Smooth	*Brite	3,000
650535	3 1/4"	.131	Smooth	*Brite	1,000
650630	3 1/4"	.131	Smooth	*Brite	3,000
650615	3 1/4"	.131	Smooth	*HDG Plus	900

Power Boost Coating

IM250A-Li 16 Gauge Angled Li-ion Finish Nailer

7.4 V Li-ion battery
Drives up to 12,000 nails per charge

Cordless Convenience and Mobility
Less mess and clutter, no dirty hoses to drag around

Compact
The most compact cordless angled finish nailer available! Superior performance in tight spaces

Tool-Free Depth of Drive
Precise control of nail depth, no tools needed

Lightweight
The lightest cordless angled finish nailer available! Superior comfort and control

CORDLESS FREE 2 YEAR SERVICE PROMISE NO QUESTIONS ASKED

Designed and Assembled in the U.S.A.

Tool Specifications

Model	Cordless 16 Ga Angled Finish Nailer
Part #	902400
Weight	4.5 lbs w/battery
Nail Capacity	100 (2 strips)
Nail Range	1¼" - 2½"
Nail Type	Angled 16 Ga - Smooth, Galvanized
Fuel Type	Finish/Trim Fuel (part# 816007)
Nails per Fuel Cell	Approx. 1,200
Battery	Li-ion battery (part# 902654)
Battery Life	12,000 nails per charge
Warranty	90-day normal wear parts 1-year limited 5-year extended limited

IM250S-Li 16 Gauge Straight Li-ion Finish Nailer

7.4 V Li-ion battery
Drives up to 12,000 nails per charge

Compact
The most compact cordless straight finish nailer available! Superior performance in tight spaces

Lightweight
The lightest cordless straight finish nailer available! Superior comfort and control

Open Line of Sight
Allows for accurate nail placement

No-Mar Tip
Protects premium wood surfaces when nailing

CORDLESS FREE 2 YEAR SERVICE PROMISE NO QUESTIONS ASKED

Designed and Assembled in the U.S.A.

Tool Specifications

Model	Cordless 16 Ga Straight Finish Nailer
Part #	916000
Weight	4.6 lbs w/battery
Nail Capacity	100 (2 strips)
Nail Range	1¼" - 2½"
Nail Type	Straight 16 Ga - Smooth, Galvanized
Fuel Type	Finish/Trim Fuel (part# 816007)
Nails per Fuel Cell	Approx. 1,200
Battery	Li-ion battery (part# 902654)
Battery Life	12,000 nails per charge
Warranty	90-day normal wear parts 1-year limited 5-year extended limited

IM200Li & IM200Li.2 18 Gauge Straight Li-ion Brad Nailers

IM200Li

IM200Li.2

7.4V Li-ion Battery
Drives up to 12,000 nails per charge

Lightweight
The lightest cordless brad nailer available! Less fatigue and better handling

Battery Standby Position
Conserves battery power

Tool-Free Depth of Drive
Precise control of nail depth, no tools needed

No-Mar Tip
Protects premium wood surfaces when nailing

Maneuverable
Superior performance in tight spaces

CORDLESS FREE 2 YEAR SERVICE PROMISE NO QUESTIONS ASKED

Designed and Assembled in the U.S.A.

Tool Specifications

Model	Cordless 18 Ga Brad Nailer	
Part #	**918000**	**918100 (Compact Mag)**
Weight	4.6 lbs w/battery	4.25 lbs w/battery
Nail Capacity	100 (2 strips)	50 (1 strip)
Nail Range	5/8" - 2"	
Nail Type	18 Ga - Smooth, Galvanized	
Fuel Type	Finish/Trim Fuel (part# 816007)	
Nails per Fuel Cell	Approx. 1,200	
Battery	Li-ion battery (part# 902654)	
Battery Life	12,000 nails per charge	
Warranty	90-day normal wear parts 1-year limited 5-year extended limited	

Part #	Product	Description	Associated Product(s)
816008	All-Season Framing Fuel	1,200 nails; 27-month shelf life	905600 - CF325XP Cordless Framing Nailer 902600 - CF325Li Cordless Framing Nailer
816007	Finish/Trim Fuel (2-pack)	1,200 nails; 21-month shelf life	902400 - Cordless 16 Ga Angled Li-ionFinish Nailer 916000 - Cordless 16 Ga Straight Li-ion Finish Nailer 918000 - Cordless 18 Ga Li-ion Brad Nailer 900078NT - Cordless 16 Ga Stapler (with below adapter)
902550	Yellow Fuel Adapter		900078NT - Cordless 16 Ga Stapler
902654	Paslode Li-Ion Battery	Framing: 9,000 nails per charge Finish: 12,000 nails per charge Full charge in 90 minutes	905600 - CF325XP Cordless Framing Nailer 902400 - Cordless 16 Ga Angled Li-ion Finish Nailer 916000 - Cordless 16 Ga Straight Li-ion Finish Nailer 918000 - Cordless 18 Ga Li-ion Brad Nailer
902667	Paslode Li-Ion Battery Charger	2x faster charge time, 2 minute quick charge drives up to 200 nails	902654 Paslode Li-Ion Battery
219413	Auto Adapter Kit	Charger base and auto adapter cord	All Paslode Li-ion Tools
402500	Paslode Ni-Cd Stick Battery	2 hour charge; 4,000 staples per charge	900078NT - Cordless 16 Ga Stapler
900200	Paslode Ni-Cd Battery Charger	2 hour charge time	404717 - Oval Battery 402500 - Stick Battery
900507	Auto Adapter Charger	Use with 900200 battery charger	900200 - Paslode Battery Charger
404717	Ni-Cd Battery	Drives up to 4,000 nails per charge; Recharges within 2 hours	902200 - CF325 Cordless Framing Nailer 900420 - IMCT Cordless Framing Nailer 900600 - IM250A Impulse Cordless 16 Ga Angled Finish Nailer 901000 - Cordless 18 Ga Brad Nailer 902000 - Cordless 16g Ga Straight Finish Nailer
219377	Cordless Li-ion Framing Tune-up Kit		905600 - CF325XP Cordless Framing Nailer 902600 - CF325Li Cordless Framing Nailer
219409	Cordless Li-ion Finish/Trim Tune-up Kit		902400 - IM250A-Li 16 Ga Angled Li-ion Finish Nailer 916000 - IM250S-Li 16 Ga Straight Li-ion Finish Nailer 918000 - IM200Li 18 Ga Straight Li-ion Brad Nailer
219348	Cordless Tool Cleaner	12oz. Bottle	All Paslode Cordless tools
401482	Cordless Nailer Lubrication Oil	4oz. bottle	All Paslode fuel-powered cordless nailers
902473	No-Mar Tips	3-pack - Angled	902400 - Cordless 16 Ga Angled Finish Nailer
219236	No-Mar Tips	3-pack - Straight	916000 - Cordless 16 Ga Straight Finish Nailer
901252	No-Mar Work Contact Element	1-pack - Framing	905600 - CF325XP Cordless Framing Nailer

F350-S POWERMASTER™ PLUS 30° PNEUMATIC FRAMING NAILER

Proven & Reliable Performance
Consistently delivers and drives nails flush to keep users productive and minimize rework & downtime

Durable
Built to last and requires less maintenance

Compact
Fits between studs, joists, and rafters

Backed with the protection of a one-year full coverage warranty

1 YEAR FULL WARRANTY

Designed and Assembled in the U.S.A.

Tool Specifications

Model	F350-S
Part #	501000
Weight	8.4 lbs
Nail Capacity	84 (2 strips)
Nail Range	2" - 3½"
Nail Diameter	.113 / .120 / .131
Nail Type	30° Paslode RounDrive® Full Head 30° Paslode Clipped Head
Operating Pressure	80-120 psi (5.5-8.3 bar)
Warranty	1-year full 5-year limited

F-350P POWERMASTER™ PRO 30° PNEUMATIC FRAMING NAILER

Dependable
Continues to ensure nails drive flush into the toughest lumber

Lightweight
Only 7.9 lbs., for reduced fatigue

Quick
2-step load helps maintain job-site momentum and productivity

Well-Balanced
Inline magazine provides optimal balance and control

Backed with the protection of a one-year full coverage warranty

1 YEAR FULL WARRANTY

Designed and Assembled in the U.S.A.

Tool Specifications

Model	F-350P
Part #	515000
Weight	7.9 lbs
Nail Capacity	Up to 88 (2 strips)
Nail Range	2" - 3¼"
Nail Diameter	.113 / .120 / .131
Nail Type	30° Paslode RounDrive® Full Head 30° Paslode Clipped Head
Operating Pressure	80-120 psi (5.5-8.3 bar)
Warranty	1-year full 5-year limited

PF350S POWERFRAMER™ 30° PNEUMATIC FRAMING NAILER

Durable Construction
Requires less maintenance

Powerful
Drives nails flush, even in LVL

Compact Size
Fits between studs

Adjustable Rafter Hook
Moves out of the way when not in use

Soft Grip Handle
For maximum comfort

Designed and Assembled in the U.S.A.

Tool Specifications

Model	PF350S PowerFramer
Part #	502000
Weight	7.95 lbs
Nail Capacity	84 (2 strips)
Nail Range	2" - 3½"
Nail Diameter	.113 / .120 / .131
Nail Type	30° Paslode RounDrive® Full Head 30° Paslode Clipped Head
Operating Pressure	80-120 psi (5.5-8.3 bar)
Warranty	90-day limited on wear parts 6-month limited on magazine parts 1-year limited on housing and cap

F250S-PP POSITIVE PLACEMENT® 1½" + 2½" METAL CONNECTOR NAILER

Hole to Hole Speed
Patented probe quickly locates hardware holes, when engaged, nailer is ready to fire

Reliable
System delivers consistent dependable performance

Powerful
Legendary motor platform consistently drives into the hardest materials, including engineered lumber

Durable
Capable of production use all day, nail lock out prevents blank firing

High Capacity Magazine
Holds up to 2 strips of nails (44 total nails)

Designed and Assembled in the U.S.A.

Tool Specifications

Model	F250S-PP
Part #	500855
Weight	8.5 lbs
Nail Capacity	44 (2 strips)
Nail Range	1½" + 2½"
Nail Diameter:	.131 / .148 / .162
Nail Type	Positive Placement® **Heat Treated** Metal Connector Nails - Brite (Smooth) and Mechanically Galvanized
Operating Pressure	80-120 psi (5.5-8.3 bar)
Warranty	90-day limited on wear parts 6-month limited on magazine parts 1-year limited on housing and cap
Dimensions	19.5"L x 5.0" W x 13.88" H

PF150S-PP POSITIVE PLACEMENT® 1½" METAL CONNECTOR NAILER

Durable
Made for tough jobsite conditions and daily use

Accurate
Probing tip guides nails into hardware holes

Compact
Fits in tight spaces and reduces fatigue

Designed and Assembled in the U.S.A.

Tool Specifications

Model	PF150S-PP
Part #	502300
Weight	6.3 lbs
Nail Capacity	44 (2 strips)
Nail Range	1½"
Nail Diameter:	.131 / .148
Nail Type	Positive Placement® **Heat Treated** Metal Connector Nails - Brite (Smooth) and Mechanically Galvanized
Operating Pressure	90-120 psi (6.2-8.3 bar)
Warranty	90-day limited on wear parts 6-month limited on magazine parts 1-year limited on housing and cap
Dimensions	17.4" L x 3.7" W x 11.7" H

F150S-PP POSITIVE PLACEMENT® 1½" METAL CONNECTOR NAILER - NEW in 2020

Fast
Positive Placement® probe for fastest hole to hole speed which provides widest angle of approach

Accurate
Probing tip guides nails into hardware holes

Powerful
Drives up to 1½" x .148 Metal Connector Nails flush even into LVL for ALL DAY PERFORMANCE

Designed and Assembled in the U.S.A.

Tool Specifications

Model	F150S-PP
Part #	515850
Weight	6.25 lbs
Nail Capacity	29 (1 strips)
Nail Range	1½"
Nail Diameter:	.131 / .148
Nail Type	Positive Placement® **Heat Treated** Metal Connector Nails - Brite (Smooth) and Mechanically Galvanized
Operating Pressure	90-120 psi (6.2-8.3 bar)
Warranty	90-day limited on wear parts 6-month limited on magazine parts 1-year limited on housing and cap
Dimensions	13" L x 3.7" W x 11.7" H

T250S-F16P 16 GAUGE STRAIGHT PNEUMATIC FINISH NAILER

Best in Class Ergonomics
Designed with enhanced features to optimize balance, maximize comfort, reduce fatigue, and increase productivity

Reliability & Durability
Proven performance that saves you time and can keep up with you

Low Maintenance
Oil-free design allows for long term, maintenance-free operation which reduces cleanup time and associated costs

Designed and Assembled in the U.S.A.

Tool Specifications

Model	T250S-F16P
Part #	515500
Weight	3.9 lbs
Nail Capacity	100 (2 strips)
Nail Range	1" - 2½"
Nail Type	Straight 16 Ga Galvanized
Operating Pressure	80-120 psi (5.5-8.3 bar)
Warranty	5-year limited

T200-F18P 18 GAUGE PNEUMATIC BRAD NAILER

Smaller Nose/Probe
Open line of sight for better accuracy and precision

Nail Lock Out System
Prevents marks on wood

Reversible Belt Hook
Easily reversible, keep both hands free for work positioning

Designed and Assembled in the U.S.A.

Tool Specifications

Model	T200-F18P
Part #	515600
Weight	2.9 lbs
Nail Capacity	100 (2 strips)
Nail Range	⅝" - 2"
Magazine Angle	Straight Collation
Nail Type	18 Ga Galvanized
Operating Pressure	80-120 psi (5.5-8.3 bar)
Warranty	90-day limited on wear parts, 6-month limited on magazine parts, 1-year limited on housing and cap parts

CS150 CAPSTAPLER HOUSEWRAP STAPLING SYSTEM

Staples & Caps in One Easy Step
Caps protect against tearing and water damage

Consistent Drive Performance
Save time on installing roofing felt and house wrap

Easy Loading
Open design makes loading and reloading a snap

Use with FasCaps Combo Pack

Tool Specifications

Model	CS150
Part #	502575
Weight	4.8 lbs
Staple Capacity	90 Staples
Cap Capacity	240 Caps/Spool
Staple Range	1" - 1½"
Staple Type	18 Ga 3/8" Narrow Crown
Operating Pressure	70-110 psi (4.8-7.6 bar)
Warranty	90-day, 1-year limited

SCS200 16 GAUGE PNEUMATIC STANDARD 1/2" CROWN STAPLER

Speed
Up to 10 staples per second

Power
Drives flush in all materials

Durable
Heavy duty all metal magazine design

1 YEAR FULL WARRANTY

Tool Specifications

Model	SCS200
Part #	515700
Weight	5.6 lbs
Magazine Capacity	Up to 150 staples
Staple Range	¾" - 2"
Staple Type	½" Crown 16 Ga Galvanized
Operating Pressure	80-120 psi (5.5-8.3 bar)
Warranty	1-year full 5-year limited

WCS200 16 GAUGE PNEUMATIC WIDE 15/16" CROWN STAPLER

Speed
Up to 10 staples per second

Power
Drives flush in all materials

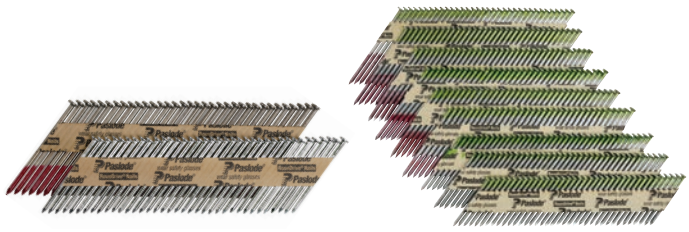
Durable
Heavy duty all metal magazine design

1 YEAR FULL WARRANTY

Tool Specifications

Model	WCS200
Part #	515800
Weight	5.9 lbs
Magazine Capacity	Up to 150 staples
Staple Range	¾" - 2"
Staple Type	15/16" Crown 16 Ga Galvanized
Operating Pressure	80-120 psi (5.5-8.3 bar)
Warranty	1-year full 5-year limited

FRAMING NAILS 30° PAPER TAPE FRAMING NAILS



RounDrive® Framing Nails

Part #	Length	Diameter	Shank	Finish	#/Box
650272	2"	.113	Smooth	Brite	5,500
650273	2"	.113	Ring	Brite	5,500
405253	2 1/2"	.131	Smooth	Brite	3,000
650237	2 3/8"	.113	Smooth	Brite	5,000
650238	2 3/8"	.113	Ring	Brite	5,000
650836	3"	.120	Smooth	Brite	2,500
650830	3"	.131	Smooth	Brite	2,500
650839	3 1/4"	.131	Smooth	Brite	2,500
650381	2"	.113	Ring	HDG Plus	2,000
650382	2 3/8"	.113	Smooth	HDG Plus	2,000
650383	2 3/8"	.113	Ring	HDG Plus	2,000
650384	3"	.120	Smooth	HDG Plus	2,000
650385	3"	.120	Ring	HDG Plus	2,000
650386	3"	.131	Smooth	HDG Plus	2,000
650387	3"	.131	Ring	HDG Plus	2,000
650388	3 1/4"	.131	Smooth	HDG Plus	2,000
650474	3 1/4"	.131	Ring	HDG Plus	2,000
650476	3 1/2"	.131	Smooth	HDG Plus	2,000

For use with 905600, 511990, 502000, and 515000

Clipped Head Framing Nails

Part #	Length	Diameter	Shank	Finish	#/Box
401548	2 1/4"	.113	Smooth	Brite (Heat Treated)	4,000
097969	2 3/4"	.120	Smooth	Brite	3,500
097970	2 3/4"	.120	Ring	Brite	3,500
097973	3"	.120	Ring	Brite	3,000
097978	3 1/4"	.131	Ring	Brite	2,500
097987	3 1/2"	.131	Smooth	Brite	2,500

Positive Placement® Nail heads marked for easy identification

Positive Placement® Metal Connector Nails

Part #	Length	Diameter	Finish	#/Box
650645 (4 boxes of 1,000 count/master carton)	1 1/2"	.131	Brite, Heat Treated	1,000
650025	1 1/2"	.131	Brite, Heat Treated	4,000
650646 (3 boxes of 1,000 count/master carton)	1 1/2"	.148	Brite, Heat Treated	1,000
650026	1 1/2"	.148	Brite, Heat Treated	3,000
650199	2 1/2"	.131	Brite, Heat Treated	2,500
650027	2 1/2"	.148	Brite, Heat Treated	2,500
650028	2 1/2"	.162	Brite, Heat Treated	2,000
650197	1 1/2"	.131	Mechanical Galv, Heat Treated	4,000
650481 (4 boxes of 500 count/master carton)	1 1/2"	.148	Mechanical Galv, Heat Treated	500
650014	1 1/2"	.148	Mechanical Galv, Heat Treated	3,000
650106	2 1/2"	.148	Mechanical Galv, Heat Treated	2,500
650198	2 1/2"	.162	Mechanical Galv, Heat Treated	2,000

For use with 502300 and 515850 (1½")
For use with 500855 and 511800 (1½" + 2½")

PNEUMATIC ACCESSORIES

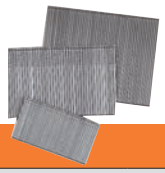
Part #	Product	Description	Associated Product(s)
403720	Pneumatic Nailer Lubrication Oil	12oz. bottle	All Paslode pneumatic nailers
219228	No-Mar Nose	Protects wood surfaces	501000 - F350-S PowerMaster Plus

FINISH / TRIM and EXTERIOR NAILS and STAPLES

16 gauge Angled Finish/Trim Nails

Part #	Length	Gauge	Finish	Quantity
650230	1 1/4"	16 ga. Angled	Galvanized	2,000
650231	1 1/2"	16 ga. Angled	Galvanized	2,000
650046	1 3/4"	16 ga. Angled	Galvanized	2,000
650047	2"	16 ga. Angled	Galvanized	2,000
650232	2 1/2"	16 ga. Angled	Galvanized	2,000

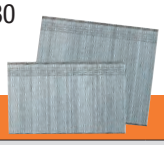
6 boxes per carton, 12,000 Qty
For use with 902400, 900600 and 500910



16 gauge Straight Finish/Trim Nails

Part #	Length	Gauge	Finish	Quantity
650282	11/4"	16 Ga. Straight	Galvanized	2,000
650283	11/2"	16 Ga. Straight	Galvanized	2,000
650284	1 3/4"	16 Ga. Straight	Galvanized	2,000
650285	2"	16 Ga. Straight	Galvanized	2,000
650287	2 1/2"	16 Ga. Straight	Galvanized	2,000

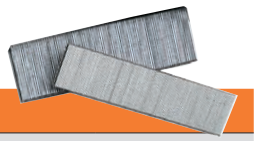
6 boxes per carton, 12,000 Qty
For use with 916000, 515500 and 501680



18 gauge Brad Nails

Part #	Length	Gauge	Finish	Quantity
650212	1"	18 Gauge Brad	Galvanized	2,000
650213	1 1/4"	18 Gauge Brad	Galvanized	2,000
650214	1 1/2"	18 Gauge Brad	Galvanized	2,000
650215	2"	18 Gauge Brad	Galvanized	2,000

6 boxes per carton, 12,000 Qty
For use with 918000, 918100, 515600, and 500959



16 gauge Standard (½") Crown Staples

Part #	Length	Wire	Crown	Finish	Quantity
0T5240	3/4"	16 Gauge	1/2"	Galvanized	21,000
0T5242	1"	16 Gauge	1/2"	Galvanized	16,500
0T5243	1 1/8"	16 Gauge	1/2"	Galvanized	15,000
0T5238	1 1/4"	16 Gauge	1/2"	Galvanized	13,500
0T2695	1 1/2"	16 Gauge	1/2"	Galvanized	10,500
0T2250	1 3/4"	16 Gauge	1/2"	Galvanized	9,000
0T2258	2"	16 Gauge	1/2"	Galvanized	7,500

For use with 515700, 900078NT and 501230

16 gauge Wide (15/16") Crown Staples

Part #	Length	Wire	Crown	Finish	Quantity
404068	3/4"	16 Gauge	15/16"	Galvanized	9,000
404069	7/8"	16 Gauge	15/16"	Galvanized	9,000
404070	1"	16 Gauge	15/16"	Galvanized	9,000
404071	1 1/4"	16 Gauge	15/16"	Galvanized	9,000
0T2855	1 1/2"	16 Gauge	15/16"	Galvanized	10,500
650098	1 3/4"	16 Gauge	15/16"	Galvanized	9,000
403471	2"	16 Gauge	15/16"	Galvanized	7,500

For use with 515800 and 501265

FasCaps Plastic Caps and Staples

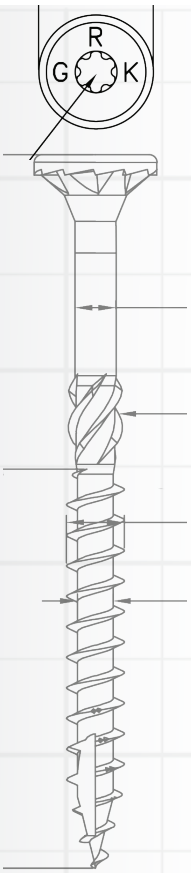
Part #	Length	Wire	Crown	Finish	Quantity
650592	1"	18 Gauge	3/8"	Galvanized	10,080 Carton
650597	1 1/2"	18 Gauge	3/8"	Galvanized	8,640 Carton

FasCaps are 6 inner boxes per carton
For use with 502575

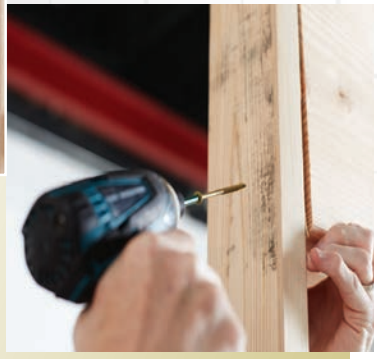
GRK's R4™ self-countersinking screw has a patented underhead with saw-blade like cutting teeth and six self-contained cutting pockets. Together they act similar to a circular saw-blade, transporting the drill dust away from the edge of the screw hole while cutting a perfectly clean hole into even the 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.



GRK FASTENERS™



R4™ MULTI-PURPOSE FRAMING & DECKING SCREWS

Faster Drive for Improved Productivity

ICC ES™

ACQ

AC257 Treated Lumber Approved

- **Fast Bite Tip:** Eliminates pre-drilling and provides a fast start for one-step installation.
- **W-Cut™:** Low torque, faster drive.
- **Precision Fit:** Reduces wobble between R4 screws and GRK bits for improved productivity.
- **Star Drive:** Zero stripping, with 6 points of contact.
- **Optimized Thread Length:** Improves clamping force for increased drawing power.
- **CEE Thread:** Enlarges hole to reduce splitting.
- **Cutting Teeth:** Cuts wood fiber & provides flush seating.
- **GRK Head Markings:** Easy identification of genuine GRK screws.
- **ESR-3201 Approved** for structural applications.
- **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 ***PHE*INOX™** 305 and 316 grade Stainless Steel.

U.S. (Std.)Size (Dia.x Length)	Bulk Part No.	*Bulk* Box Qty.	Pro-Pak Part No.	*Pro-Pak* Pail Qty.	Handy-Pak Part No.	*Handy-Pak* MC Qty. / Screw Qty. *(per EA)*
 T-15						
#6 x 1-1/4”	**00051†**	13,000				
#8 x 1-1/4”			**01069†**	1,300	**96080†**	4 / 110
#8 x 1-1/2”	**00073†**	6,500	**01073†**	1,000	**96085†**	4 / 110
#8 x 1-3/4”			**01075†**	925	**02075†**	20 / 100
#8 x 2"	**00077**	4,500	**01077**	850	**02077**	20 / 100
#8 x 2-1/2”	**00079**	3,500	**01079**	650	**02079**	20 / 100
#9 x 1-1/4”	**00091†**	8,000				
#9 x 1-1/2”	**00095†**	5,200	**01095†**	820	**02095†**	20 / 100
#9 x 1-3/4”	**00097†**	4,500				
#9 x 2"	**00099**	3,700	**01099**	690	**103099**	4 / 110
#9 x 2-1/2”	**00101**	2,900	**01101**	575	**103101**	4 / 100
#9 x 2-3/4”	**00103**	2,000	**01103**	480	**02103**	10 / 100
#9 x 3-1/8”	**00105**	1,900	**01105**	425	**103105**	4 / 80
#10 x 2"	**00131**	3,200				
#10 x 2-1/2”	**00133**	2,500	**01133**	470	**103133**	4 / 80
#10 x 2-3/4”	**00135**	2,000				
#10 x 3-1/8”	**00137**	1,500	**01137**	350	**103137**	4 / 70
#10 x 3-1/2”	**00139**	1,200	**01139**	300	**02139**	10 / 50
#10 x 4"	**00141**	1,000	**01141**	270	**103141**	4 / 50
#10 x 4-3/4”	**00143**	800	**01143**	230	**02143**	10 / 50
#12/14 x 5-5/8”	**00173**	600			**96089**	4 / 50
#12/14 x 6-3/8”	**00177**	1,000			**02177**	9 / 50
#12/14 x 8"	**00181**	500			**02181**	9 / 50


T-15

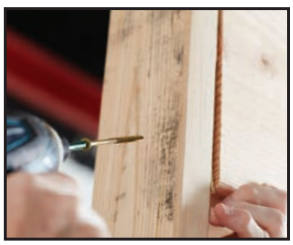

T-25

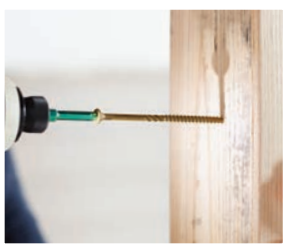

T-25


T-25

R4™ CONTRACTOR PACKS (XL BUCKETS)

U.S. (std.)	Pt. No.	Quantity
#9 x 2"	**120990**	990
#9 x 2-1/2”	**121010**	900
#9 x 3-1/8”	**121050**	720
#10 x 3-1/8	**95200**	630
#10 x 4”	**121410**	450





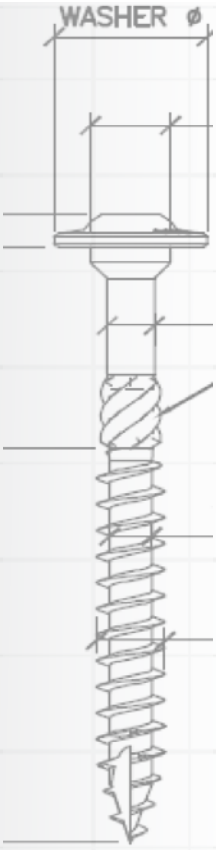
Some sizes available in ***PHE*INOX™** hardened Stainless Steel; refer to Section 5. 2” bit included in Pro-Paks. 1” bit w/Handy-Paks. *Does not come with the Zip-Tip™ feature. †Does not have the added CEE-THREAD™ feature.
NOTE: Pro-Paks need to be ordered in multiples of two.

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.

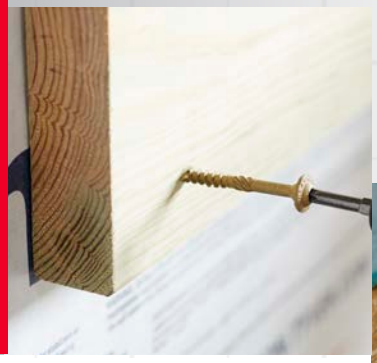
RSS™ screws that are 3-1/8" and longer have CEE Threads which enlarge the screw hole for the non-threaded portion of the fastener, allowing the wood to settle easily and increases the screw's drawing strength. The CEE Thread also reduces the friction on the screw shank which can result in lowering the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

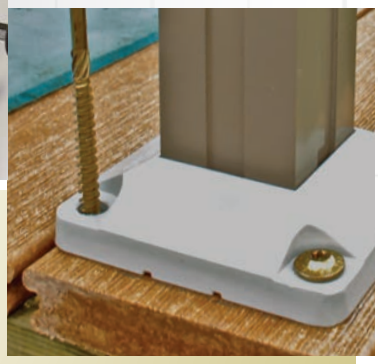
Our round head with built-in shield (washer type head) has no sharp edges like conventional lag screws. The added shoulder (nominal diameter) underneath the washer has the ability to center the RSS™ screw in pre-drilled hardware like hinges and connector plates.

RSS™ JTS - *Used for joists and trusses*



GRK FASTENERS™





RSS™ RUGGED STRUCTURAL SCREWS

Easy to Install Lag Alternative

ACQ

AC257 Treated Lumber Approved

ICC ES™

- **Fast Bite Tip:** Provides an immediate start in wood.
  - *5/16" Diameter Only
- **Zip-Tip™:** Eliminates Pre-drilling.
- **W-Cut™:** Low torque, faster drive.
- **Precision Fit:** Reduces wobble between RSS screws and GRK bits for improved productivity.
  - *5/16" Diameter Only
- **Star Drive:** Zero Stripping, with 6 points of contact.
- **CEE Thread:** Enlarges hole to reduce splitting.
- **Washer Head:** For immense holding power.
- **ESR-2442 Approved** for structural application.
- **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 ***PHE*INOX™** 305 and 316 grade Stainless Steel.

U.S. (Std.)Size (Dia.x Length)	Bulk Part No.	*Bulk* Box Qty.	Pro-Pak Part No.	*Pro-Pak* Pail Qty.	Handy-Pak Part No.	*Handy-Pak* MC Qty. / Screw Qty. *(per EA)*
 T-25						
#10 x 2-1/2”	**10133†**	1,000			**12133†**	10 / 50
#10 x 3-1/8”	**10137**	800	**11137**	236	**12137**	10 / 50
 T-25						
1/4” x 1-1/2”	**10151*†**	1,000			**12151*†**	20 / 50
1/4” x 2"	**10155*†**	800			**12155*†**	10 / 50
1/4” x 2-1/2”	**10157†**	700				
1/4” x 3-1/8”	**10161**	500			**12161**	10 / 50
 T-30						
5/16” x 2-1/2”	**10217†**	600			**12217†**	9 / 100
5/16” x 2-3/4”	**10219†**	500			**12219†**	2 / 100
5/16” x 3-1/8”	**10221**	500			**12221**	2 / 100
5/16” x 3-1/2”	**10223**	500			**12223**	2 / 100
5/16” x 4"	**10225**	400			**12225**	2 / 100
5/16” x 5-1/8”	**10231**	300			**12231**	9 / 50
5/16” x 6"	**10235**	300			**12235**	9 / 50
 T-40						
3/8” x 3-1/8”	**10273**	400				
3/8” x 4"	**10275**	400			**12275**	9 / 50
3/8” x 6"	**10281**	300			**12281**	2 / 50
3/8” x 7-1/4”	**10285**	200			**12285**	2 / 50
3/8” x 8"	**10287**	300			**12287**	2 / 50
3/8” x 10"	**10293**	300			**12293**	2 / 50
3/8” x 12"	**10299**	300			**12299**	2 / 50
3/8” x 14-1/8”					**12307**	2 / 50
3/8” x 16"	**10311**	100			**12311**	2 / 50

RSS™ JTS - JOIST AND TRUSS SCREW

 T-25						
1/4” x 5"					**93735**	9 / 50
1/4” x 6-3/4”	**91743**	300			**93743**	9 / 50

RSS™ MINI HANDY-PAK

U.S. (std.)	Pt. No.	MC Qty./ Screw Qty.
5/16” x 3-1/8"	**14221**	10 / 25
5/16” x 4"	**14225**	10 / 25
5/16” x 5-1/8"	**14231**	10 / 20
5/16” x 6"	**14235**	10 / 20

RSS™ INDIVIDUALLY TAGGED

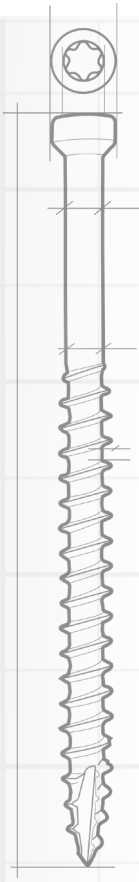
U.S. (std.)	Pt. No.	Qty./ Ctn.
5/16” x 3-1/8"	**96001**	1/50
5/16” x 4"	**96005**	1/50
5/16” x 5-1/8"	**96010**	1/50
5/16” x 6"	**96015**	1/40
3/8” x 8"	**96020**	1/25
3/8” x 10”	**96025**	1/25
3/8” x 12”	**96030**	1/20

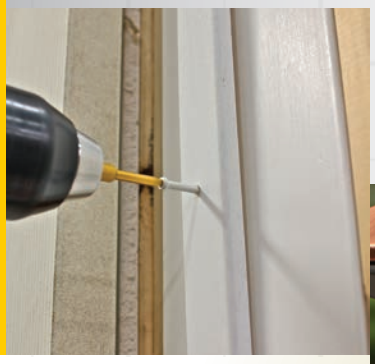
Some sizes available in ***PHE*INOX**™ hardened Stainless Steel; refer to Section 5.
NOTE: Pro-Paks need to be ordered in multiples of two. ***D**oes* not come with the Zip-Tip™ feature.
†Does not have the added CEE-THREAD™ feature. 2” bit included in Pro-Paks. 1” bit with Handy-Paks.

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.





FIN/TRIM™ FINISHING TRIM HEAD SCREWS

Install Right the First Time

ICC ES™

ACQ

AC257 Treated Lumber Approved

- **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 ***PHE*INOX™** 305 and 316 grade Stainless Steel.

	U.S. (Std.)Size (Dia.x Length)	Bulk Part No.	*Bulk* Box Qty.	Pro-Pak Part No.	*Pro-Pak* Pail Qty.	Handy-Pak Part No.	*Handy-Pak* MC Qty. / Screw Qty. *(per EA)*
 T-10	#8 x 1-1/4"					**96055**	6 / 100
	#8 x 1-1/2"	**15724**	6,500	**116724**	600	**119724**	6 / 100
	#8 x 2"	**15728**	4,500	**116728**	510	**119728**	6 / 100
	#8 x 2-1/2"	**15730**	3,500	**16730**	605	**119730**	6 / 100
	#8 x 2-3/4"					**17732**	20 / 100
	#8 x 3-1/8"	**15734**	2,500	**115734**	300	**119734**	6 / 100
 T-15	#9 x 4"	**15760**	1,000			**117760**	4 / 50
	#9 x 5"	**15766**	800			**117766**	4 / 50
 T-10	WHITE FIN / TRIM™						
	#8 x 2"			**16828**	605	**96060**	4 / 100
	#8 x 2-1/2"			**16830**	505	**96065**	4 / 100

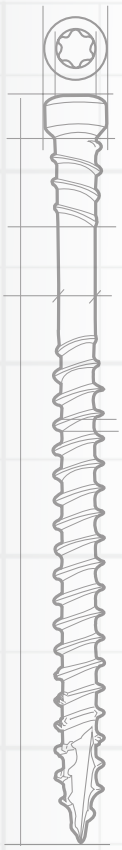
Some sizes available in ***PHE*INOX**™ hardened Stainless Steel; refer to Section 5
NOTE: Pro-Paks need to be ordered in multiples of two. 2" bit included in Pro-Paks. 1" bit with Handy-Paks.

Excellent for all of your trimwork and fine carpentry finishing.

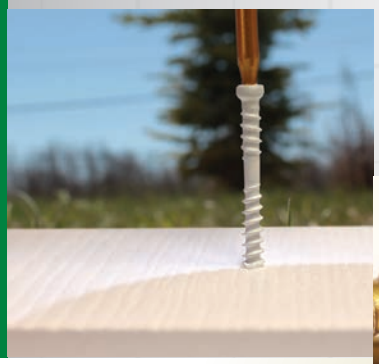
GRK has modified its innovative FIN/Trim™ Head screw to include reverse threading under the head of the fastener. This technology makes the RT Composite™ Trim Screw ideal for use in composite and cellular PVC trim.

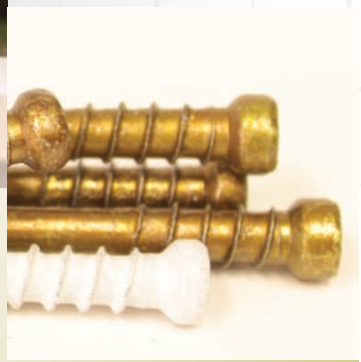
Based on extensive tests, GRK has found that the reverse thread helps the screw head disappear beneath the surface of the classic wood composite material, reducing or eliminating the dimple that sometimes appears when using the FIN/Trim™ screw.

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.



GRK FASTENERS™





RT COMPOSITE™ EXTERIOR TRIM SCREWS

Install Right the First Time

ACQ

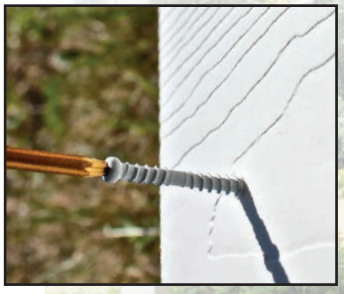
AC257 Treated Lumber Approved

- **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.
- **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 **Climatek™** or white Climatek™ coated finish.
- Also available in ***PHE*INOX**™ 305 and 316 grade Stainless Steel.

	U.S. (Std.)Size (Dia.x Length)	Bulk Part No.	*Bulk* Box Qty.	Pro-Pak Part No.	*Pro-Pak* Pail Qty.	Handy-Pak Part No.	*Handy-Pak* MC Qty. / Screw Qty. *(per EA)*
 T-10	#8 x 2"			**16077**	725	**119077**	6 / 100
	#8 x 2-1/2"	**15079**	3,500	**16079**	605	**119079**	6 / 100
	#8 x 3-1/8"	**15083**	2,500	**16083**	514	**119083**	6 / 100
 T-15	#9 x 2-1/2"	**15101**	2,900	**16101**	408		
	#9 x 3-1/8"	**15105**	1,900	**16105**	348		
	WHITE RT COMPOSITE™						
 T-10	#8 x 2"			**16628**	605	**17628**	20 / 100
	#8 x 2-1/2"			**16630**	505	**96075**	4 / 100
	#8 x 2-3/4"					**17632**	20 / 100
	#8 x 3-1/8"					**17634**	10 / 100

Some sizes available in ***PHE*INOX™** hardened Stainless Steel; refer to Section 5.
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.



305 STAINLESS STEEL
Corrosion Resistance for Harsh Environments

316 STAINLESS STEEL
Marine Grade Protection for Superior Corrosion Resistance

*PHE*INOX™ STAINLESS STEEL SCREWS

*PHE*INOX™ 305 Stainless Steel screws are corrosion and stain resistant fasteners designed to withstand wet environments. *PHE*INOX™ 316 Stainless Steel screws are designed for coastal applications. GRK's patented R4, RSS, FIN/TRIM and RT composite screws are available in *PHE*INOX™ stainless steel.

GRK recommends *PHE*INOX™ 305 stainless steel screws for applications that require superior corrosion resistance in wet environments such as decks, boardwalks, pools, and hot tubs. *PHE*INOX™ 305 stainless is also recommended for use with cedar, red-wood, and various other wood substrates that have higher acid content as well as for composite deck boards. *PHE*INOX™ 305 stainless steel screws are recommended for applications located more than 1 mile from the coast.

*PHE*INOX™ 316 stainless steel screws are recommended for applications exposed to salt water or located within 1 mile of the salt water shoreline.

The Zip-Tip™ feature of the screw allows a faster start and eliminates the need for pre-drilling. Hardened stainless steel provides superior strength and unmatched performance by maximizing torque and increasing bending yield.

ACQ

AC257 Treated Lumber Approved

ICC ES™

Applies to 305 stainless only

GRK FASTENERS™

*PHE*INOX™ 305	*PHE*INOX™ 316
• For use in cedar, redwood, specialty hardwood, IPE, and Mangaris	• For use within 1 mile of the coast
• Corrosion resistance for harsh environments	• Marine-Grade protection for Superior corrosion resistance
• Corrosion resistance for wet environments	• Superior Corrosion resistance for coastal environments
• Stain resistant in specialty wood	• Stain resistant in specialty wood

U.S. (Std.)Size (Dia.x Length)	Bulk Part No.	*Bulk* Box Qty.	Pro-Pak Part No.	*Pro-Pak* Pail Qty.	Handy-Pak Part No.	*Handy-Pak* MC Qty. / Screw Qty. *(per EA)*
R4™ SCREWS : *PHE*INOX™ 305						
T-25						
#10 x 2-1/2"	**25133**	2,500	**61633**	240	**61733**	4 / 80
#10 x 3-1/8"	**25137**	1,500	**61637**	210	**61737**	4 / 70
RSS™ SCREWS: *PHE*INOX™ 305						
T-30						
5/16" x 3-1/8"	**30221**	500				
5/16" x 4"	**30225**	400			**62225**	4 / 45
5/16" x 5-1/8"					**132231**	4 / 40
5/16" x 6"	**30235**	300				
RT COMPOSITE™ TRIM SCREWS: *PHE*INOX™ 305						
T-10						
#8 x 2"			**36077**	600		
#8 x 2-1/2"	**35079**	3,500	**36079**	560	**37079**	20 / 100
T-15						
#9 x 2-1/2"			**36101**	365		
FIN / TRIM™ SCREWS: *PHE*INOX™ 305						
T-10						
#8 x 1-1/2"					**37724**	20 / 100
#8 x 2"			**61728**	510	**67728**	6 / 100
#8 x 2-1/2"			**61730**	420	**67730**	6 / 100
#8 x 3-1/8"			**36734**	385	**37734**	10 / 100
T-15						
#9 x 2-1/2"			**36752**	365		
R4™ SCREWS: *PHE*INOX™ 316						
T-25						
#10 x 2-1/2"					**137133**	4 / 80
#10 x 3-1/8"					**137147**	4 / 70
FIN / TRIM™ SCREWS: *PHE*INOX™ 316						
T-10						
#8 x 2-1/2"					**147730**	6 / 100

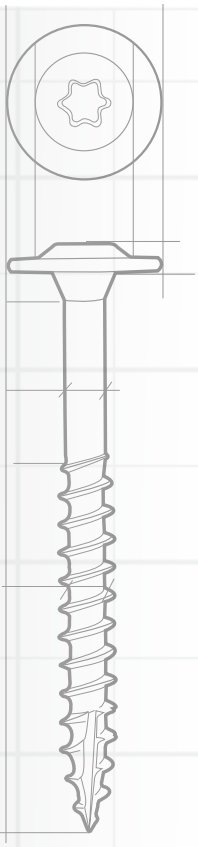
2" bit included in Pro-Paks. 1" bit with Handy-Paks. *Does not come with the Zip-Tip™ feature.
†Does not have the added CEE-THREAD™ feature.

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 and garage organizational systems.



LOW PROFILE CABINET™ SCREWS

Quick and Secure Installation

ACQ

AC257 Treated Lumber Approved

- **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.
- **White Cabinet Screw:** For interior use only.

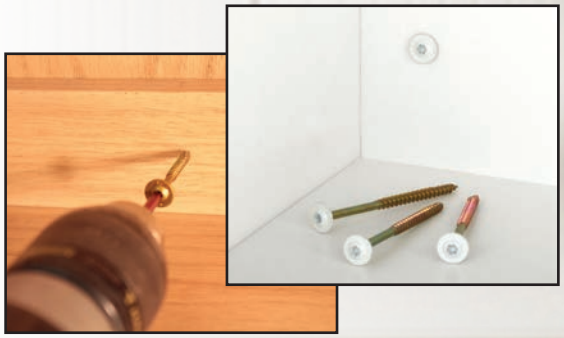

T-15

U.S. (Std.)Size (Dia.x Length)	Bulk Part No.	*Bulk* Box Qty.	Pro-Pak Part No.	*Pro-Pak* Pail Qty.	Handy-Pak Part No.	*Handy-Pak* MC Qty. / Screw Qty. *(per EA)*
#8 x 1”					**96050***	6 / 100
#8 x 1-1/4”	**10069**	4,000	**100069**	330	**114069**	6 / 100
#8 x 1-1/2”	**10073**	3,000	**100073**	330	**114073**	6 / 100
#8 x 1-3/4”	**10075**	2,000			**12075**	10 / 100
#8 x 2"	**10077**	2,000	**96077**	330	**113077**	4 / 100
#8 x 2-1/2”	**10079**	1,500	**110079**	330	**113079**	4 / 100
#8 x 2-3/4”					**113081**	4 / 100
#8 x 3-1/8”	**10083**	1,000	**110083**	270	**114083**	6 / 50


T-15

WHITE LOW PROFILE™ CABINET SCREWS						
#8 x 1-1/4"					**120680**	6 / 80
#8 x 1-1/2”					**120670**	6 / 80
#8 x 2-1/2”					**120660**	6 / 80

NOTE: Pro-Paks need to be ordered in multiples of two. 2” bit included in Pro-Paks.
***Does** not come with the Zip-Tip™ feature.



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

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

- **Recessed Star Drive:** Zero Stripping, with 6 points of contact.
- **Aggressive Heavy Duty Threads** lock into concrete and can be removed / 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.

GRK FASTENERS™

CALIBURN™ CONCRETE SCREWS

Heavy Duty Concrete and Masonry Fastener

U.S. (Std.)Size (Dia.x Length)	Bulk Part No.	*Bulk* Box Qty.	Pro-Pak Part No.	*Pro-Pak* Pail Qty.	Handy-Pak Part No.	*Handy-Pak* MC Qty. / Screw Qty. *(per EA)*
1/4" x 1-3/4"	**55159**	1,000	N/A	N/A	**57153**	10 / 50
1/4" x 2-1/4"					**57156**	10 / 50
1/4" x 2-3/4"					**57159**	10 / 50
1/4" x 3-1/2"					**57163**	10 / 50
1/4" x 5"					**57171**	10 / 50
CALIBURN™ PH						
1/4" x 1-3/4"			N/A	N/A	**57828**	10 / 50
1/4" x 2-1/4"					**57831**	10 / 50
CALIBURN™ XL						
19/64" x 2-3/4"	**55778**	400	N/A	N/A	**57774**	10 / 25
19/64" x 3-1/2"					**57778**	10 / 25
19/64" x 5"					**57785**	10 / 25


T-30


T-30


T-40

1" bit included in Handy-Paks

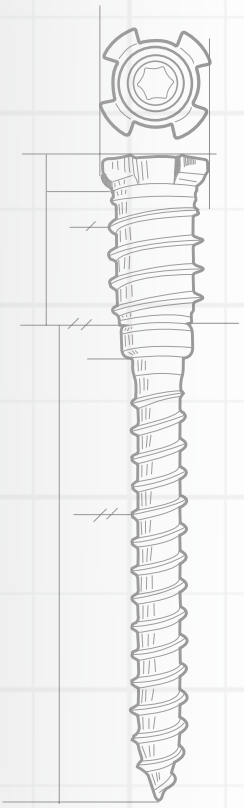
ACQ

AC257 Treated Lumber Approved

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.

- **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.



TOP STAR™ ADJUSTABLE SHIM SCREWS

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

The Complete Top Star™ System Includes:

BIT **CROWN** **THREADED SLEEVE**

U.S. (Std.)Size (Dia.x Length)	Pro-Pak Part No.	*Pro-Pak* Box Qty.
3/8" x 2-1/2"	**20157**	100
3/8" x 3-1/8"	**20161**	100

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

CROWN / BIT	Blister-Pak Part No.	*Blister-Pak*/Qty
Includes: (1) Crown / Bit with each	**86465**	1

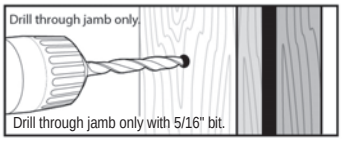
NOTE: Crown and Star bit system included in each bulk box. 5/16" drill bit not included.

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.

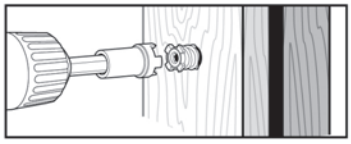
The Threaded Sleeve moves independently from the Top Star™ unless locked by the Crown. When locked, the Top Star™ gets driven into the material.

Unlocked, the installed Top Star™ is ready for levelling.

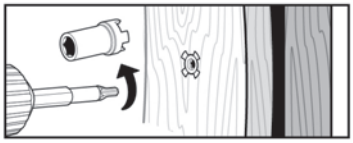
1



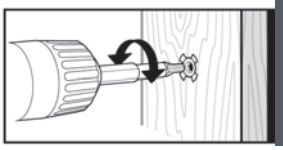
2



3



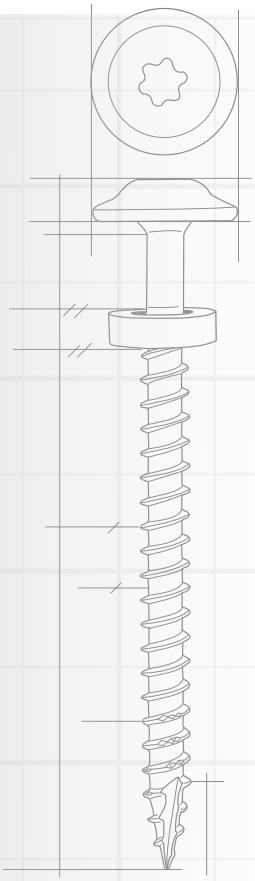
4



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.

- **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.



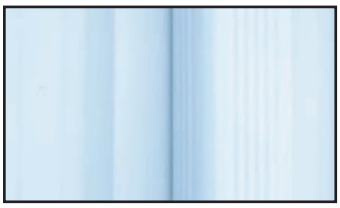
MSS™ METAL SIDING SCREW

Integrated Head Design with Powder Coating Finish

T-25

U.S. (Std.)Size (Dia.x Length)	Bulk Part No.	*Bulk* Box Qty.
#9 x 1-1/2”	**40090**	3,000

1” bit included in Handy-Paks



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

E-Z Ancors® are ideal for hanging accessories, signs, fixtures, and shelving units on drywall. Designed to self-drill flush into drywall for easy and fast installations. No pre-drilling necessary. The threads are formed to provide increased stability and a secure hold.

E-Z Ancor® Twist-N-Lock is designed for light to medium-duty applications. The audible click provides confirmation of the anchor being firmly set. Threads cut deeply to resist pull-out and provide a secure hold.

E-Z Ancor® Stud Solver is designed for light to medium-duty applications. Installs anywhere on a wall, even if you hit a wood stud behind the drywall. Threads cut deeply to resist pull-out and provide a secure hold.

E-Z Ancor® Toggle Lock is designed for heavy-duty drywall applications. The superior 1-piece assembly prevents losing extra pieces behind the wall. The toggle bar swivels easily during assembly to provide a secure hold.

Buildex® Stucco Anchor is designed for light to medium-duty applications in stucco. The zinc plating is designed to be durable in exterior and interior applications. Kits include a drill bit for installation.

E-Z Ancor® Drywall Anchors

Easy to Install with Strong Holding Power

U.S. (Std.)Size (Max Load)	Lg. Pack Part No.	Lg. Pack Qty.	Med. Pack Part No.	Med. Pack Qty.	Small Pack Part No.	Small Pack Qty.
E-Z Ancor Twist-N-Lock Anchors						
50 lbs.	**25350**	50	**25200**	25	**11353**	6
75 lbs.	**25310**	50	**25210**	20	**11364**	4
E-Z Ancor Stud Solver Anchors						
40 lbs.			**25225**	25	**25125**	4
50 lbs.	**25316**	50	**25216**	20	**29503**	5
E-Z Ancor / E-Z Toggle Lock Anchor						
100 lbs.	**25320**	25	**25220**	10	**10006**	2
Buildex® Stucco Anchors						
3/16"x 1-1/2" Hex Hd			**31810**	25	**31710**	4
3/16"x 1-1/2" Flat Hd			**31820**	25	**31720**	4
1/4"x 2-7/8"			**31840**	25	**31740**	4

E-Z Ancor Contractor Packs		
U.S. (Std.) Size (Max Load)	Contractor Pack Part No.	Contractor Pack Qty.
E-Z Ancor Contractor Twist-N-Lock Anchors		
75 lbs.	**25410**	100

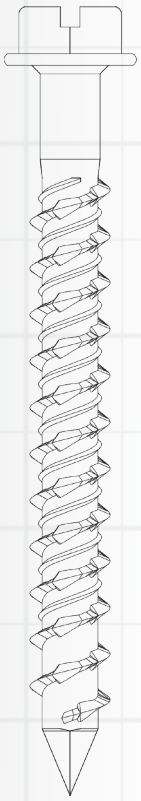
- **No Pre-Drilling:** Screws directly into drywall with a Phillips screwdriver.
- **Self-Piercing Point:** Positions anchor in desired location without slipping and starts self-drilling faster.
- **Clean Finish:** Installs nails flush into drywall.
- **Strong Holding Power:** Prevents loose connections and items from wobbling.

Warning: Do not use Twist-N-Lock or Stud Solver anchors for ceiling applications. Do not use for mounting televisions. Load ratings are for items hung flush to the wall. Load ratings decrease when hanging items that project from the wall.

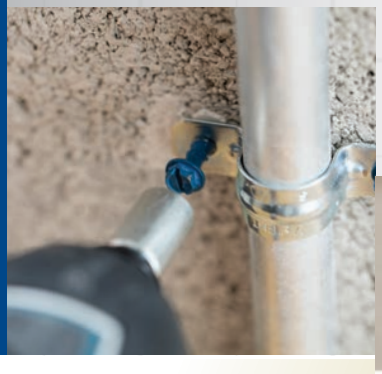
For decades, Tapcon products have enabled professionals to get their light to medium-duty concrete anchoring jobs done right the first time, every time. Designed to deliver 30% less torque and 20% more holding power, Tapcon anchors are the #1 choice of professionals.

Tapcon concrete screw anchors are designed to deliver superior holding power in all forms of masonry (concrete, CMU, and brick). The advanced WERCS threadform turns any anchoring job into a fast and easy process.

Offering everything from the anchors needed to fasten any fixture to concrete, to the drill bits that deliver a more precise hole and maximize holding power, to the Tapcon Pro Installation Kit that makes jobs faster and easier, Tapcon provides professionals with all the tools they need for confidence in a job done right.



Tapcon® GENUINE Concrete Screw Anchors



TAPCON® CONCRETE SCREW ANCHORS

Nothing Anchors Like Tapcon

- **Superior Holding Strength** for confidence in a job done right.
- **Corrosion-resistance and long-lasting performance** from the innovative Climaseal blue coating.
- **Advanced WERCS Threadform** reduces the installation torque & allows for use in a wider range of materials.
- **ICC-ES** approved for use in anchoring into concrete (ESR-2202).
- A long-standing reputation for quality, strength, and ease of installation from industry professionals.

With over one billion anchors sold, Tapcon concrete anchors deliver the ease of use, superior precision, and unparalleled performance that professionals demand.

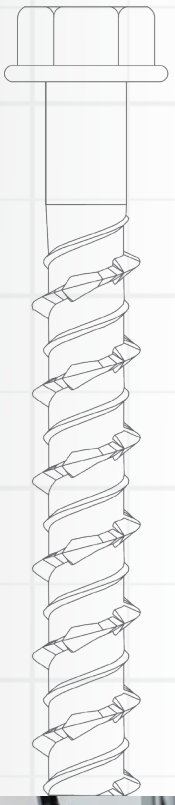
ICC ES™

U.S. (Std.)Size (Dia.x Length)	Bucket Part No.	Bucket Qty.	Lg. Clam Part No.	Lg. Clam Qty.	Med. Pack Part No.	Med. Pack Qty.	Sm. Pack Part No.	Sm. Pack Qty.
PHILLIPS HEAD								
3/16" x 1-1/4"	**24550**	225	**24350**	75	**24250**	25	**24150**	8
3/16" x 1-3/4"	**24555**	225	**24355**	75	**24255**	25	**24155**	8
3/16" x 2-1/4"	**24560**	225	**24360**	75	**24260**	25	**24160**	8
3/16" x 2-3/4"	**24565**	225	**24365**	75	**24265**	25	**24165**	8
1/4" x 1-3/4"	**25575**	225	**24375**	75	**24275**	25	**24175**	8
1/4" x 2-1/4"			**24380**	75	**24280**	25	**24180**	8
1/4" x 2-3/4"	**24585**	150	**24385**	75	**24285**	25	**24185**	8
1/4" x 3-3/4"			**24395**	75	**24390**	25		
1/4" x 4"					**24397**	25		
HEX HEAD								
3/16" x 1-1/4"			**24300**	75	**24200**	25	**24100**	8
3/16" x 1-3/4"			**24305**	75	**24205**	25	**24105**	8
3/16" x 2-3/4"			**24310**	75	**24210**	25	**24110**	8
1/4" x 1-1/4"	**24515**	225	**24315**	75	**24215**	25	**24115**	8
1/4" x 1-3/4"	**24520**	225	**24320**	75	**24220**	25	**24120**	8
1/4" x 2-1/4"	**24525**	225	**24325**	75	**24225**	25	**24125**	8
1/4" x 2-3/4"	**24530**	150	**24330**	75	**24230**	25	**24130**	8
1/4" x 3-1/4"	**24501**	150	**24301**	75			**24101**	8
1/4" x 3-3/4"			**24340**	75	**24335**	25		
1/4" x 4"					**24345**	25		
WHITE ULTRASHIELD TAPCON								
3/16" x 1-3/4"			**24371**	75			**24171**	8
3/16" x 2-1/4"			**24372**	75			**24172**	8
3/16" x 2-3/4"			**24367**	75			**24167**	8
1/4" x 2-3/4"			**24388**	75	**24288**	25	**24188**	8
1/4" x 3-1/4"			**24391**	75				
1/4" x 3-3/4"			**24392**	75				
410 STAINLESS STEEL TAPCON								
3/16" x 1-3/4"							**26155**	8
3/16" x 2-3/4"							**26165**	8
1/4" x 1-3/4"							**26120**	8
1/4" x 2-3/4"							**26130**	8
MAXI-SET TAPCON								
1/4" x 2-1/4"			**24326**	50				
1/4" x 2-1/4" *White*			**24323**	50				
TAPCON DRILL BITS								
5/32" x 3-1/2"							**11256**	1
5/32" x 4-1/2"					**11249**	4	**11247**	1
5/32" x 5-1/2"							**11363**	1
3/16" x 3-1/2"							**11257**	1
3/16" x 4-1/2"					**11250**	4	**11248**	1
3/16" x 5-1/2"							**11362**	1
5/32" x 7" SDS							**11492**	1
3/16" x 7" SDS							**11491**	1
1/4" x 7" SDS							**11493**	1
3/8" x 8" SDS							**11494**	1
1/2" x 10" SDS							**11495**	1
TAPCON PRO INSTALLATION KIT								
Tapcon Pro Install Tool							**79012**	1

Ideal for projects that require heavy-duty holding power, Tapcon+ concrete screw anchors are the stronger, faster, and easier masonry anchoring solution. This heavy-duty screw anchor features a high-strength body that's built to resist both high wind and seismic tension and is ICC-ES approved for use in both cracked and un-cracked concrete.

Superior to wedge and sleeve anchors, Tapcon+ installs in less than half the time while delivering 20% more holding power and the flexibility to install closer to the edge of the concrete and closer to one another.

- **ICC-ES Approved** for use in uncracked & cracked concrete and seismic conditions (ESR-3699).
- **Heavy-Duty Holding Power** in all concrete conditions.
- **Flexibility** to install closer to the edge & closer together with confidence.
- A long-standing reputation for quality, strength, and ease of installation from industry professionals.



HEAVY DUTY Tapcon+ Concrete Screw Anchors

TAPCON® CONCRETE SCREW ANCHORS

Stronger. Faster. Easier.

U.S. (Std.)Size (Dia.x Length)	Pro-Pak Part No.	Pro-Pak Qty.	Handy-Pak Part No.	Handy-Pak Pail Qty.	Part No.	Qty.
5/16" x 2-1/4"			**24292**	15	**24192**	4
5/16" x 3"			**24293**	15	**24193**	4
3/8" x 3"	**11413**	10			**50403**	2
3/8" x 4"	**11414**	10			**50404**	2
1/2" x 4"	**11420**	10			**50408**	2
1/2" x 6"	**11421**	10			**50426**	2

ICC ES

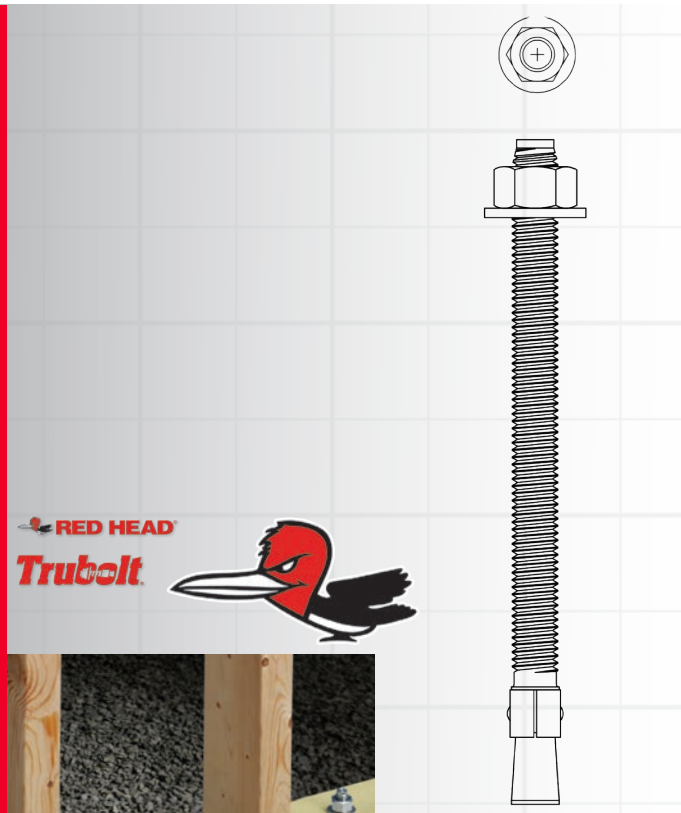
CRACKED & UNCRACKED SEISMIC APPROVED

ICC-ES ESR-3699
2015 IBC Compliant

Trubolt Wedge Anchors offer maximum strength and ultimate flexibility making them the PRO choice for heavy-duty anchoring. This wedge anchor features a high-strength body that is built to resist tension and shear loads, and it is code approved for use in uncracked concrete per ICC-ES ESR-2251.

Not only is Trubolt code recognized, but this wedge anchor offers a full line of diameter options and a variety of lengths. Trubolt wedge anchors are also available in both electrogalvanized and hot-dip galvanized finishes to perform in various applications. For additional application versatility, Trubolt wedge anchors are fully threaded to accommodate a greater range of fixture thicknesses. The wedge anchor's stainless steel clip provides extended corrosion resistance to ensure the long term integrity of connections.

- **ICC-ES Approved** for use in uncracked concrete (ICC-ES-ESR-2251).
- **Heavy-Duty Holding Power** in concrete conditions.
- **Fully Threaded Anchor Design** for application versatility.
- **Stainless Steel Clip** provides additional corrosion protection.
- A long-standing reputation for quality, strength, and ease of installation from industry professionals.



TRUBOLT® WEDGE ANCHORS

Maximum Strength for Heavy-Duty Concrete Anchoring

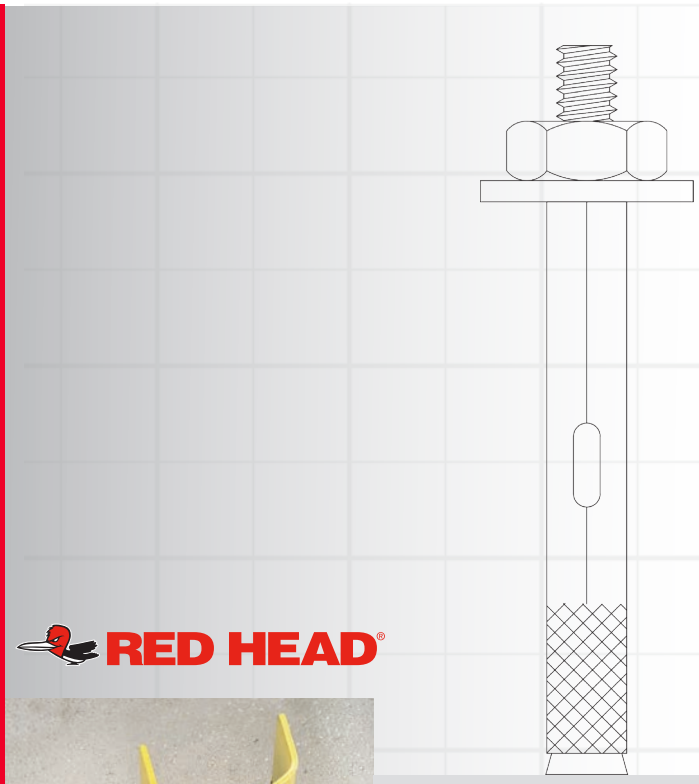
U.S. (Std.)Size (Dia.x Length)	Pro-Pak Part No.	Pro-Pak Qty.	Handy-Pak Part No.	Handy-Pak Pail Qty.	Poly-Bag Part No.	Poly-Bag Qty.
1/4" x 2-1/4"			**12377**	25	**50080**	1
3/8" x 2-1/4"	**12367**	50	**12015**	15	**50081**	1
3/8" x 3"	**03014**	50			**50082**	1
3/8" x 3-3/4"	**12370**	50	**12016**	15	**50083**	1
3/8" x 5"			**12022**	15	**50084**	1
1/2" x 2-3/4"					**50085**	1
1/2" x 3-3/4"	**12371**	25	**12017**	10	**50181**	1
1/2" x 4-1/4"	**12372**	25	**12020**	10	**50086**	1
1/2" x 5-1/2"	**12373**	25	**12019**	10	**50087**	1
1/2" x 7"					**50088**	1
5/8" x 5"	**12310**	10			**50089**	1
5/8" x 6"	**03041**	10				
5/8" x 7"	**03044**	10			**51030**	1
5/8" x 8-1/2"					**50305**	1
3/4" x 5-1/2"	**02992**	10			**51001**	1
HOT-DIPPED GALVANIZED						
1/2" x 5-1/2"HDG			**12021**	10	**50303**	1
1/2" x 7" HDG	**12029**	10			**50307**	1

ICC ES

As the company that invented concrete anchoring technology, Red Head holds a unique place in the history of construction and building. The Red Head brand has become synonymous with the anchoring product category it invented. That's why Red Head can help you get any job done right, from heavy-duty ceiling applications to light-duty work in block and brick.

Our sleeve anchor line is our most versatile anchor with the ability to fasten in block, brick, masonry, and solid concrete.

For a lighter duty project, Poly-Set and Hammer-Set are great choices for block, brick, and concrete and allow for quick and easy installation. For heavy-duty overhead applications, use our Drop-In anchors. Use the complete family of anchors and SDS bits to ensure precise hole depth and diameter when using our anchors.



RED HEAD® CONCRETE ANCHORS

Versatile Anchoring Solutions for Construction & Building

U.S. (Std.)Size (Dia.x Length)	Pro-Pak Part No.	Pro-Pak Qty.	Handy-Pak Part No.	Handy-Pak Pail Qty.	Poly-Bag Part No.	Poly-Bag Qty.
SLEEVE ANCHORS						
1/4" x 2-1/4" Acorn Hd					**50122**	1
1/4" x 2-1/4" Threshold Hd					**50123**	1
1/4" x 3-1/8" Flat Hd					**50121**	1
5/16" x 1-1/2" Hex Hd					**50112**	1
5/16" x 2-1/2" Hex Hd					**50113**	1
3/8" x 1-7/8" Hex Hd					**50114**	1
3/8" x 3" Hex Hd	**11281**	50	**11013**	15	**50115**	1
1/2" x 2-1/4" Hex Hd					**50116**	1
1/2" x 3" Hex Hd	**11283**	25	**11014**	10	**50117**	1
1/2" x 4" Hex Hd	**11285**	25	**11018**	10	**50118**	1
5/8" x 4-1/4" Hex Hd					**50119**	1
5/8" x 6" Hex Hd					**50120**	1
POLY-SET ANCHORS						
1-1/4"			**35220**	50		
1-7/16"			**35225**	50		
HAMMER-SET ANCHORS						
1/4" x 1"	**35300**	75	**35200**	25		
1/4" x 1-1/2"	**35303**	50	**35203**	15		
1/4" x 2"	**35305**	50	**35205**	15		
1/4" x 3"	**35207**	25				
DROP-IN ANCHORS						
3/8" Anchor	**01891**	50			**50125**	1
1/2" Anchor					**50126**	1
3/8" Setting Tool					**07499**	1
1/2" Setting Tool					**07501**	1

For jobs requiring versatility, high performance, and efficiency, Red Head's A7+ Concrete Adhesive Anchor is the one anchoring solution that does it all. A7+ takes only 45 minutes to fully cure and can be used in challenging conditions like cold temperatures and water-filled holes. A7+ is also ICC-ES approved for cracked concrete and seismic building code requirements.

A7+ can also be used in any standard medium-duty caulk gun, eliminating the inconvenience of needing a special dispensing tool. Combine the simplicity of dispensing with the quick-curing product, and installation is fast, easy, and doesn't take time away from the rest of the project.

The A7+ concrete adhesive anchoring solution is a high-performing anchor that rivals other products on the market in both price and features. This high performance and efficiency allows for less time on the job and more productivity.

Providing code approved performance and a fast 45 minute cure time, Red Head A7+ is the concrete anchoring adhesive that delivers.

A7+

RED HEAD®

RED HEAD® A7+ ADHESIVE ANCHORS

High Strength Adhesive Anchoring Solution for Harsh Conditions

- **ICC-ES Approved** for use in cracked concrete and seismic conditions (ICC-ES ESR-3903).
- **Quick 45 Minute Cure Time** for fast installation.
- **Easy Dispensing** with a standard caulk gun, eliminating the need for any special tools.
- A successful cure in cold temperatures, as low as 14° F.
- Increased productivity with a successful cure in saturated concrete and water-filled holes.
- A long-standing reputation for quality, strength, and ease of installation from industry professionals.

ICC ES

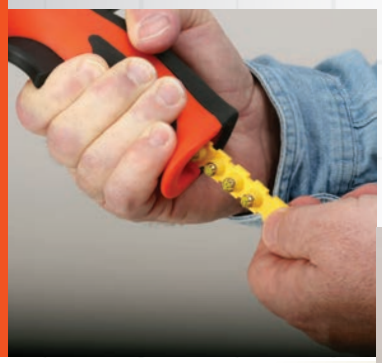
CRACKED & UNCRACKED
SEISMIC APPROVED
ICC-ES ESR-3903
2015 IBC Compliant

U.S. (Std.)Size	Part No.	Qty.
9.5 oz. Cartridge	**07111**	1

Ramset is a leading line of powder actuated tools and fasteners for residential and commercial remodeling. As the developer of the very first powder actuated tool in 1948, Ramset has a history of reliability, innovation, and market-leading performance. Ramset has supplied more than a million tools to professional contractors specialty tradesmen and continues to deliver products that drive jobsite speed. Utilizing the whole line of Ramset tools, powder loads, and fasteners increases jobsite productivity and leads to a job done right.

From tools that display the market leading innovation, like Cobra+ and MasterShot, to the full range of drive pins and powder loads for your applications, you can be sure to find what you need with the Ramset family of products.

Ramset®



RAMSET® TOOLS AND FASTENERS

Powder Actuated Tools for Residential & Commercial Remodeling.

- **Powder actuated tools for concrete or steel.**
- **Drives jobsite speed** through quick and efficient fastening.
- **Market leading tool innovations** help you get the job done right.
- The Powder Actuated Tool choice for PROs.

Item / Tools	Part No.	Qty.
Cobra+ .27 Caliber Semi-Automatic *Powder Actuated Tool*	**16942**	1
MasterShot .22 Caliber Single-Shot *Powder Actuated Tool*	**40088**	1
TriggerShot .22 Caliber Single-Shot *Powder Actuated Tool*	**40066**	1
HammerShot .22 Caliber Single-Shot *Powder Actuated Tool*	**00022**	1

ICC ES™

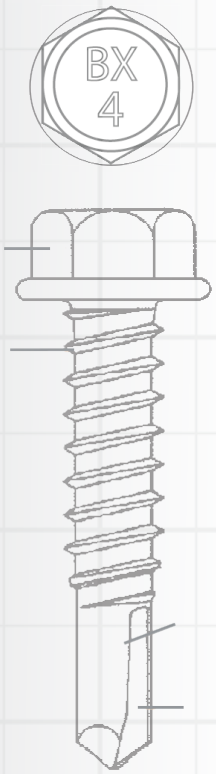
U.S. (Std.)Size	Large Box Part No.	Large Box Quantity	Small Clam Part No.	Small Clam Quantity
DRIVE PINS				
.300 x 1/2"	**06171**	100		
.300 x 3/4"	**00747**	100		
.300 x 1"	**00759**	100		
.300 x 1-1/2"	**00774**	100		
.300 x 2"	**00780**	100		
.300 x 2-1/2"	**00786**	100	**00787**	25
.300 x 3"	**00794**	100		
DRIVE PINS WITH WASHERS				
.300 x 1"	**00797**	100		
.300 x 1-1/2"	**00803**	100	**00804**	25
.300 x 1-1/4"	**00800**	100		
.300 x 2"	**00806**	100		
.300 x 2-1/2"	**00809**	100	**00810**	15
.300 x 3"	**07886**	100	**07887**	15
RAMGUARD DRIVE PINS FOR USE IN TREATED LUMBER				
.300 x 2-1/2"	**09167**	100		
.300 x 2-1/2" with Washers	**09173**	100		
.300 x 3" with Washers	**09176**	100		

Caliber	Color	Type	Strip Load Part No.	Qty.	Single Shot Box Pt. #	Single Shot Box Qty.	Single Shot Blister Pt.#	Single Shot Blister Qty.
POWDER LOADS								
.22	Brown	Powder			**00594**	100		
.22	Green	Powder			**00601**	100		
.22	Yellow	Powder			**00607**	100	**50077**	25
.27	Green	Strip	**00652**	100				
.27	Yellow	Strip	**00667**	100				
.27	Red	Strip	**00682**	100				

Teks® fasteners are the leading choice of self-tapping screws for use in interior/exterior applications; including metal-to-metal, wood-to-metal, and roofing applications. Professionals are able to drill faster with less force even in heavy gauge metal. The self-tapping threads are designed to tap holes while providing superior holding power ensuring strong connections between materials.

Teks® fasteners are offered in sharp and drill points that easily penetrate light to heavy gauge metal and wood. Professionals no longer have to struggle when engaging their work surface.

Teks® fasteners are offered in a wide variety of head styles to meet professionals installation needs. No tool slippage or cam-outs even with old sockets and worn bits. Professionals can drill, tap, and fasten – all in one motion.



Teks®
THE ORIGINAL

TEKS® METAL FASTENERS

Securely Fasten Metal with Speed

- **Drive surface and recess:** Reduces cam-outs to prevent slipping during installation.
- **Drill Points:** Self-drills through light to heavy gauge metal with ease.
- **Sharp Points:** Self-pierces into light gauge metal to start drilling faster.
- **Self-Tapping Threads:** Taps their own threads to provide less effort when fastening into metal.
- **Corrosion Resistant Finish:** Protects the job's appearance with long lasting coating.
- **Neoprene Washer:** Roofing screws feature a neoprene washer that provides a waterproof seal.
- **Reamer Wings:** Winged screws self-drill into wood and engage metal to provide a secure hold.
- **Lath head:** Lath Screws feature a low-profile head for a semi-flush finish for virtually any application.

U.S. (Std.)Size (Dia.x Length)	Pro-Pak Part No.	*Pro-Pak* Pail Qty.	Handy-Pak Part No.	*Handy-Pak* Ctn. Size/Qty.
TEKS® METAL TO METAL SCREWS				
HEX WASHER HEAD / DRILL POINT (METAL TO METAL)				
8 x 1/2"			**21308**	S/280
8 x 3/4"			**21312**	S/180
8 x 1"			**21316**	S/170
10 x 5/8"			**21396**	S/170
10 x 3/4"	**21322**	450	**21320**	S/150
10 x 1"			**21328**	M/140
10 x 1-1/2"			**21332**	M/90
12 x 3/4"			**21336**	M/120
12 x 1"	**21341**	400	**21340**	M/100
12 x 1-1/2"			**21344**	M/80
12 x 2"			**21348**	M/60
12/14 x 2"			**21820**	M/60
14 x 3/4"			**21349**	S/100
14 x 1"			**21351**	S/60
14 x 1-1/2"			**21352**	M/50
14 x 2-1/2"	**21358**	120	**21356**	M/30
HEX WASHER HEAD / SHARP POINT (METAL TO METAL)				
6 x 1/2"			**21301**	S/320
8 x 1-1/2"			**21318**	M/85
10 x 3/4"			**21327**	M/150
PAN HEAD / DRILL POINT (METAL TO METAL)				
8 x 1/2"			**21360**	S/300
8 x 3/4"			**21364**	S/240
10 x 3/4"			**21372**	S/170
PAN HEAD / SHARP POINT (METAL TO METAL)				
6 x 1/2"			**21359**	S/300
PANCAKE HEAD / DRILL POINT (METAL TO METAL)				
10 x 5/8"			**21376**	S/190
TEKS® WOOD TO METAL SCREWS				
PHILLIPS FLAT HEAD / DRILL POINT W/REAMER WINGS (WOOD TO METAL)				
1/4-20 x 3"			**21378**	M/40
10 x 1-7/16"	**21381**	300	**21380**	S/100
12 x 2-3/4"	**21386**	200	**21384**	S/40

U.S. (Std.)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"	**21401**	360	**21400**	M/120
9 x 1-1/2"	**21406**	400	**21404**	M/100
9 x 2-1/2"			**21407**	M/60
HEX WASHER HEAD / DRILL POINT (METAL TO METAL)				
12 x 3/4"			**21408**	M/90
12 x 1"	**21418**	400	**21412**	M/80
12 x 1-1/2"	**21422**	300		
12 x 2"	**21427**	150	**21416**	M/50
TEKS® LATH SCREWS				
MODIFIED TRUSS HEAD / SHARP POINT (METAL TO METAL)				
8 x 1/2"			**21500**	S/260
8 x 3/4"	**21506**	600	**21504**	S/200
8 x 1"	**21510**	510	**21508**	S/170
8 x 1-1/4"			**21512**	M/140
8 x 1-5/8"			**21516**	M/120
8 x 2"			**21518**	M/100
8 x 2-1/2"			**21519**	M/80
MODIFIED TRUSS HEAD / DRILL POINT (METAL TO METAL)				
8 x 1/2"			**21520**	S/260
8 x 3/4"	**21525**	600	**21524**	S/200
8 x 1"	**21530**	510	**21528**	S/170
8 x 1-1/4"			**21532**	M/140
8 x 1-5/8"			**21536**	M/120
8 x 2"			**21538**	M/100
8 x 2-1/2"			**21540**	M/80

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

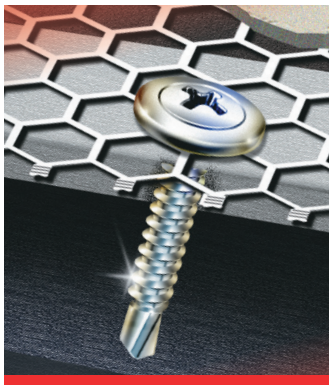

Hex Washer Head

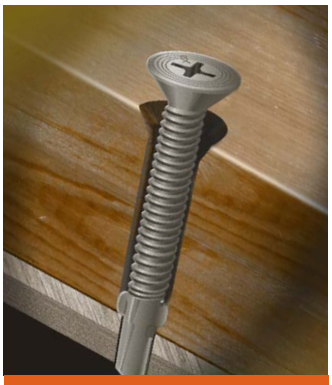

Flat Head


Pan Head


Modified Truss Head


ROOFING SCREWS


LATH SCREWS

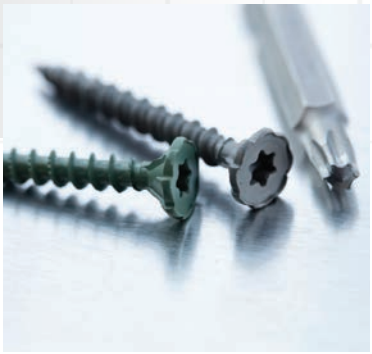

WOOD TO METAL SCREWS


METAL TO METAL SCREWS

Backer-On® cement screws are designed for attaching Hardie-Backer® cement board and Rock-On® cement board screws are designed for attaching Durock® cement board to wood or light gauge steel studs. The patented serrated head design counter-sinks for a flush finish even at angle, providing a smooth surface for tile installation. The T-25 Star Drive recess provides Stikfit™ for one-handed installation. Climacoat corrosion resistant finish prevents rust from bleeding into grout. Making it perfect for use in high moisture areas such as bathrooms and kitchens.

Backer-On® and Rock-On® cement board screws 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.

- **Serrated Head:** Designed to drive flush even at an angle.
- **Star Drive with T-25 Bit:** Provides Stikfit™ for easy one-handed installation and eliminates cam-outs.
- **Hi-Lo / Single Threads:** Starts quickly and drives smooth in cement boards.
- **Sharp Points:** Offers immediate pick-up and eliminates the need to pre-drill.
- **Climacoat Finish:** Corrosion resistant for preventing rust from bleeding into tile.



BACKER-ON® ROCK-ON®
CEMENT BOARD SCREWS
Fasten Cement Board Right with a Smooth & Corrosion-Resistant Finish

U.S. (Std.)Size (Dia.x Length)	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"	**23406**	750	**23401**	M/185
#9 x 1-5/8"	**23416**	575	**23411**	M/140
#9 x 2-1/4"			**23421**	M/100
ROCK-ON® SCREWS				
#9 x 1-1/4"	**23306**	750	**23301**	M/185
#9 x 1-5/8"	**23316**	575	**23311**	M/140
#9 x 2-1/4"			**23321**	M/100

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

BACKER-ON® / ROCK-ON® StikFit Bit		
SIZE POINT	PART NO.	CARDED QUANTITY / PER PACK
#T-25 2"	**24000**	(2) StikFit Bits

The T-25 StikFit Bits modified tip eliminates wobble and offers one-handed installation only for Backer-On/Rock-On cement board screws. The bits are made with S2 modified steel for long lasting bit life.

Pro Tip: Standard roofing nails, dry wall screws, and other alternatives to cement board screws are typically not specified by cement board manufacturers and not ANSI compliant.

GRK FASTENERS™

Star Drive Bits, Crown / Bit

Bit Size	Bit Color	Fits	Bulk Part No.	*Bulk* Box Qty.	Carded Part No.	*Carded* Qty/per pack
T-10 2" **T-10 3"**	Yellow Yellow	Trim™ Head #8	**86419**	25	**187419** **87421**	2 2
T-15 2" **T-15 3"**	Red Red	R4™ Screw #6 & 8 Trim™ Head #9 Cabinet™ Screw	**86427**	25	**187427** **87429**	2 2
T-20 2"	Purple		**86435**	25	**187435**	2
T-25 2" **T-25 3"**	Green Green	R4™ #9,10 &12 RSS™ #10 & 1/4" MSS™ #9	**86443**	25	**187443** **87445**	2 2
T-30 2" **T-30 3"**	Black Black	RSS™ Structural Screw 5/16” Caliburn™ & Caliburn PH™	**86451**	25	**187451** **87453**	2 2
T-40 2"	Blue	Caliburn XL™ Screws RSS™ Structural Screw 3/8”	**86459**	25	**187459**	2
CROWN / BIT						
		TOP STAR™			**86465**	1

High Impact Merchandisers Designed to Drive Sales

Displays are free with qualifying order.

Rolling Rack:

GRK5432 Formerly #89001-GRK (includes header)

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 and Header:

GRK# 99900 Display
Header# 98023 (not included)

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

2ft Tapcon Display (includes header)

The premier Tapcon offering consisting of the top-selling Tapcon skus the PRO seeks.

3ft Concrete Anchoring Set:

Ideal for in-line placement on existing shelving. Offers complete coverage from light to heavy duty concrete anchoring.

CBS Rolling Rack (includes header):

Holds our top selling cement board screws in convenience and pro packs. Ideal for placement near Durock® and HardieBacker® cement boards.

FASTENER TECHNICAL DATA

RSS™

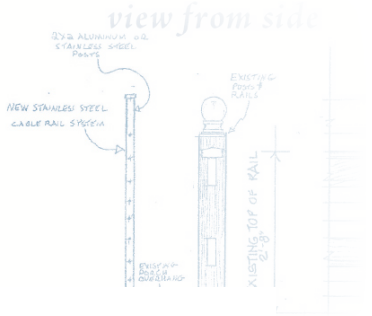
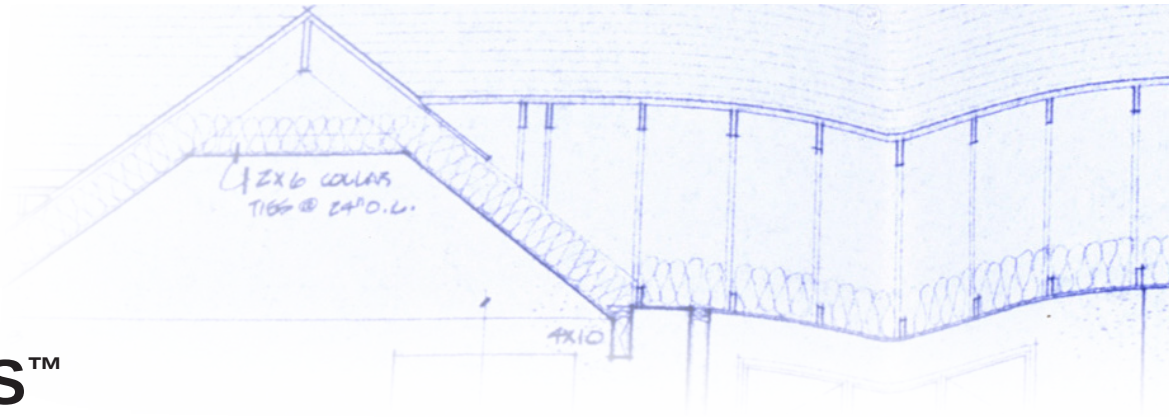


TABLE 1—RSS™ FASTENER SPECIFICATIONS

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)
RSS	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"	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 1/8						
	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						
	3/8 x 3 1/8"	3 1/8	2 1/8	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	.167	0.195	0.276	118,300	806	668
	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 3/8"	3 3/8	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.

[1]The length of fasteners is measured from the underside of the head to bottom of the tip. See Figure 1.
[2]Length of thread includes tip. See Figure 1.
[3]Bending yield strength determined in accordance with ASTM F1575 using the minor thread diameter.
[4]See Figure 1 for additional dimensional information.



RSS™

TABLE 2—RSS™ REFERENCE WITHDRAWAL (*W*) AND PULL-THROUGH (*P*) DESIGN VALUES[1]

FASTENER DESIGNATION		THREAD LENGTH (inches)	*W* (lbf/ in.)[2] For Specific Gravities of:		P (lbf)[3] For Specific Gravities of:		WET SERVICE FACTOR, C_M
			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"	1 1/2	151	186	165	275	0.70
	1/4 x 2 3/4"	1 3/4					
	1/4 x 3 1/8"	2					
	1/4 x 3 1/2"	2 3/8					
	5/16 x 2 1/2"	1 1/2	165	227	207	418	
	5/16 x 2 3/4"	1 3/4					
	5/16 x 3 1/8"	2 1/8					
	5/16 x 3 1/2"	2 1/2					
	5/16 x 4"	2 3/4					
	5/16 x 5 1/8"	3 1/2					
	5/16 x 6"	3 7/8					
	3/8 x 3 1/8"	2 1/8	180	259	196	351	
	3/8 x 4"	2 3/4					
	3/8 x 5 1/8"	3 1/2					
	3/8 x 6"	4					
	3/8 x 7 1/4"	4 1/2					
	3/8 x 8"	4 3/8					
	3/8 x 10"	5					
	3/8 x 12"	5 7/8					
	3/8 x 14 1/8"	5 7/8					
	3/8 x 16"	5 3/4					
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.

[1]Values must be multiplied by all applicable adjustment factors, in accordance with the NDS. When the fasteners are used in wet service conditions, the wet service factors shown in the table are applicable.
[2]Tabulated reference withdrawal design values are in pounds per inch of thread penetration into the side grain of the main member, and must be multiplied by the thread length embedded in the member in order to get the total withdrawal design value in pounds. Length of CEE threads must not be included in the withdrawal value determination.
[3]Tabulated pull-through design values are based on a minimum side member thickness of 3/4 inch.

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

TABLE 3—RSS™ REFERENCE LATERAL DESIGN VALUES (*Z*) FOR SINGLE SHEAR (TWO-MEMBER) CONNECTIONS[1]
[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_M
				0.42 ≤ G < 0.55		0.55 ≤ G < 0.67		
				Parallel to Grain, $Z_\parallel$	Perpendicular to Grain, $Z_\perp$	Parallel to Grain, $Z_\parallel$	Perpendicular to Grain, $Z_\perp$	
RSS	1/4 x 2 1/2"	3/4	1 5/8	153	137	175	175	0.70
	1/4 x 2 3/4"	3/4	2					
	1/4 x 3 1/8"	3/4	2 3/8					
	1/4 x 3 1/2"	3/4	2 3/4					
	5/16 x 2 1/2"	3/4	1 5/8	168	133	214	178	
	5/16 x 2 3/4"	3/4	2					
	5/16 x 3 1/8"	3/4	2 3/8					
	5/16 x 3 1/2"	3/4	2 3/4					
	5/16 x 4"	1 1/2	2 3/8	239	236	333	257	
	5/16 x 5 1/8"	1 1/2	3 1/2					
	5/16 x 6"	2	3 7/8	265	299	472	289	
	3/8 x 3 1/8"	3/4	2 3/8	188	156	251	220	
	3/8 x 4"	1 1/2	2 3/8	224	205	274	264	
	3/8 x 5 1/8"	1 1/2	3 5/8					
	3/8 x 6"	2	3 7/8	270	296	325	288	
	3/8 x 7 1/4"	2 3/4	4 1/4	423	291	593	304	
	3/8 x 8"	3 1/2	4 3/8					
	3/8 x 10"	3 1/2	6 1/4					
	3/8 x 12"	3 1/2	8 3/8					
	3/8 x 14 1/8"	3 1/2	10 5/8					
	3/8 x 16"	3 1/2	12 1/8					
LPS	1/4 x 8"	5	2 7/8	249	257	358	219	0.62
LTF	3/8 x 8"	4	3 7/8	433	315	556	402	0.70
	3/8 x 10"	6	3 7/8					
	3/8 x 12"	8	3 3/4					
PHEinox	1/4 x 2 1/2"	3/4	1 5/8	162	134	215	185	0.70
	1/4 x 3 1/8"	3/4	2 3/8					
	5/16 x 2 1/2"	3/4	1 5/8	151	149	181	175	
	5/16 x 3 1/8"	3/4	2 3/8					
	5/16 x 4"	1 1/2	2 3/8	249	229	337	272	
	5/16 x 5 1/8"	1 1/2	3 5/8					
	5/16 x 6"	2	3 7/8	302	340	449	358	
JTS	1/4 x 3 3/8"	1 3/4	1 5/8	157	168	217	217	0.70
	1/4 x 5"	1 3/4	3 1/4	168	221	241	237	
	1/4 x 6 3/4"	1 3/4	5					

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

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

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

FASTENER TECHNICAL DATA

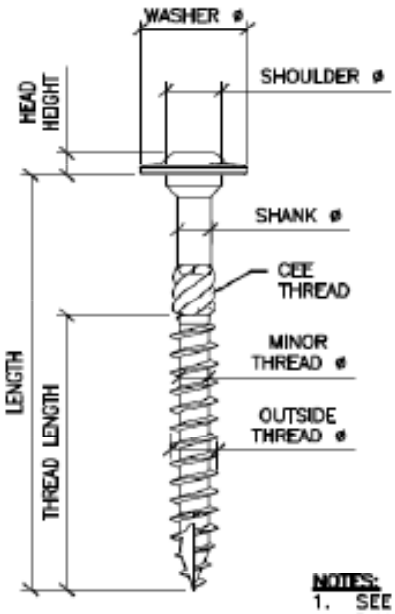
RSS™

TABLE 4 - CONNECTION GEOMETRY

CONNECTION GEOMETRY / CRITERIA	DIAMETERS[1]	RSS, LPS, JTS & *PHE*INOX™ 1/4" NOMINAL DIAMETER (inches)	RSS & *PHE*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 Perpendiculat 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 = 25.4mm

[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 ¼ (6.0mm)		0.533	0.110	0.244	LENGTH ≥ 3⅛"
RSS 5/16 (7.0mm)		0.620	0.157	0.301	LENGTH ≥ 3⅛"
RSS ⅜ (8.0mm)		0.689	0.181	0.364	LENGTH ≥ 3⅛"
LTF ⅜ (8.0mm)		0.688	0.181	0.364	LENGTH ≥ 3⅛"
LPS ¼ (6.0mm)		0.535	0.090	0.244	NO
JTS ¼ (6.3mm)		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.

FIGURE 1 — FASTENER DIMENSIONS

FASTENER TECHNICAL DATA

R4™, Trim™

TABLE 1A—CARBON STEEL FASTENER SPECIFICATIONS

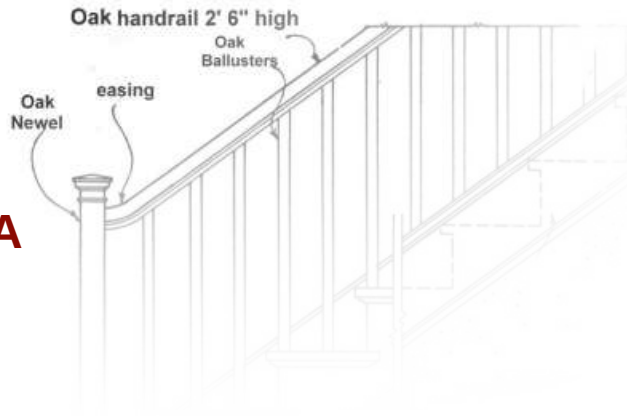
FASTENER DESIGNATION		OVERALL LENGTH[1] (inches)	THREAD LENGTH[2] (inches)	HEAD DIAMETER (inch)	HEAD RECESS	ROOT DIAMETER (inch)	SHANK DIAMETER (inch)	OUTSIDE THREAD DIAMETER (inch)	BENDING YIELD STRENGTH[3] F_{yb} (psi)	ALLOWABLE STEEL STRENGTH	
										Tensile (lbf)	Shear (lbf)
R4	9x2"	2	1 1/4	0.329	Star drive T-25	0.112	0.128	0.173	158,800	627	428
	9x2 1/2"	2 3/8	1 5/8								
	9x2 3/4"	2 3/4	1 7/8								
	9x3 1/8"	3 1/8	1 5/8 (2 1/8)								
	10x2 1/2"	2 3/8	1 5/8	0.368	Star drive T-25	0.124	0.142	0.193	143,590	846	542
	10x2 3/4"	2 3/4	1 7/8								
	10x3 1/8"	3 1/8	1 5/8 (2 1/8)								
	10x3 1/2"	3 1/2	2 (2 3/8)								
	10x4"	3 7/8	2 3/8								
	10x4 3/4"	4 5/8	3								
				0.439	Star drive T-25	0.148	0.171	0.234	134,280	1134	655
	12x4 3/4"	4 5/8	3								
	12x5 5/8"	5 1/2	3								
	12x6 3/8"	6 1/4	3								
	12x7 1/4"	7	3								
	12x8"	7 7/8	3								
	12x10"	9 3/4	3								
	12x12"	11 3/4	3								
FIN/TRIM	8x2 1/2"	2 3/8	1 5/8	0.197	Star drive T-10	0.100	0.111	0.156	148,410	499	360
	8x2 3/4"	2 3/4	1 7/8								
	8x3 1/8"	3 1/8	2 1/8								
	9x2 1/2"	2 3/8	1 5/8	0.230	Star drive T-15	0.112	0.128	0.175	147,280	576	425
	9x2 3/4"	2 3/4	1 7/8								
	9x3 1/8"	3 1/8	2 1/8								

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)	BENDING YIELD STRENGTH[3] F_{yb} (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	113,340	467	334
	10x2 1/2"	2 3/8	1 5/8	0.368	Star drive T-25	0.124	0.142	0.193	170,220	490	424
	10x2 3/4"	2 3/4	1 7/8								
	10x3 1/8"	3 1/8	1 5/8 (2 1/8)								
	10x4"	3 7/8	2 3/8								
FIN/TRIM, RT COMPOSITE	8x2 1/2"	2 3/8	1 5/8	0.197	Star drive T-10	0.100	0.111	0.156	117,540	350	267
	8x2 3/4"	2 3/4	1 7/8								
	8x3 1/8"	3 1/8	2 1/8								
	9x2 1/2"	2 3/8	1 5/8	0.230	Star drive T-15	0.112	0.128	0.175	66,340	394	319
	9x2 3/4"	2 3/4	1 7/8								
	9x3 1/8"	3 1/8	2 1/8								

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

[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. Where two thread lengths are shown, the first refers to thread length of screws marked with "GRK" on the fastener head, and the one in parentheses refers to screws which do not have this marking on the head. See detailed illustrations in Figure 1.
[3]Bending yield strength determined in accordance with ASTM F1575 using the root diameter.



FASTENER TECHNICAL DATA

R4™, Trim™

TABLE 2A— REFERENCE WITHDRAWAL DESIGN VALUES (*W*) FOR CLIMATEK™ COATED FASTENERS[1,2]

FASTENER DESIGNATION		THREAD LENGTH[3] (inches)	*W* (lbf/in.) FOR SPECIFIC GRAVITIES (SG) OF:			
			SG ≥ 0.67[4]	0.58 ≥ SG ≥ 0.55	0.55 > SG ≥ 0.49	0.49 > SG ≥ 0.42
R4	9x2"	1 1/4	179	221	172	124
	9x2 1/2"	1 5/8				
	9x2 3/4"	1 7/8				
	9x3 1/8"	1 5/8 (2 1/8)				
	10x2 1/2"	1 5/8	249	228	155	133
	10x2 3/4"	1 7/8				
	10x3 1/8"	1 5/8 (2 1/8)				
	10x3 1/2"	2 (2 1/8)				
	10x4"	2 5/8				
	10x4 3/4"	3				
	12x4 3/4"	3	255	217	209	141
	12x5 5/8"	3				
	12x6 3/8"	3				
	12x7 1/4"	3				
	12x8"	3				
	12x10"	3				
	12x12"	3				
FIN/TRIM	8x2 1/2"	1 5/8	175	n/a	n/a	n/a
	8x2 3/4"	1 7/8				
	8x3 1/8"	2 1/8				
	9x2 1/2"	1 5/8	221	n/a	n/a	n/a
	9x2 3/4"	1 7/8				
	9x3 1/8"	2 1/8				

For **SI:** 1 inch = 25.4 mm; 1 lbf/in = 175 N/m.

[1]Tabulated reference withdrawal design values (*W*) are in pounds per inch of thread penetration into side grain of main member.
[2]Values must be multiplied by applicable adjustment factors, in accordance with the NDS, and must be multiplied by the length of thread penetration in the main member, including tip.
[3]Where two thread lengths are shown, the first refers to thread length of screws marked with "GRK" on the fastener head, and the second refers to screws which do not have this marking on the head.
[4]Pilot holes equal to 70% of the root diameter of the screw are required, and the tabulated values are applicable to connections subject to tension load only, due to differing pilot hole requirements for lateral connections.

TABLE 3A— REFERENCE PULL-THROUGH DESIGN VALUES (*P*) FOR CLIMATEK™ COATED FASTENERS[1]

FASTENER DESIGNATION		MINIMUM SIDE MEMBER THICKNESS (inch)	*P* (lbf) FOR SPECIFIC GRAVITIES (SG) OF:			
			SG ≥ 0.67[2]	0.58 ≥ SG ≥ 0.55	0.55 > SG ≥ 0.49	0.49 > SG ≥ 0.42
R4	9x2"	3/4	162	119	107	83
	9x2 1/2"					
	9x2 3/4"					
	9x3 1/8"					
	10x2 1/2"	3/4	275	140	126	103
	10x2 3/4"					
	10x3 1/8"					
	10x3 1/2"					
	10x4"					
	10x4 3/4"					
	12x4 3/4"	3/4	407	176	171	126
	12x5 5/8"					
	12x6 3/8"					
	12x7 1/4"					
	12x8"					
	12x10"					
	12x12"					
FIN/TRIM	8x2 1/2"	3/4	61	n/a	n/a	n/a
	8x2 3/4"					
	8x3 1/8"					
	9x2 1/2"	3/4	94	n/a	n/a	n/a
	9x2 3/4"					
	9x3 1/8"					

For **SI:** 1 inch = 25.4 mm; 1 lbf = 4.45 N.

[1]Values must be multiplied by applicable adjustment factors, in accordance with the NDS.
[2]Pilot holes equal to 90% of the root diameter of the screw are required, and the tabulated values are applicable to connections subject to tension load only.

TABLE 2B — REFERENCE WITHDRAWAL DESIGN VALUES (*W*) FOR PHEINOX™ STAINLESS STEEL FASTENERS[1,2]

FASTENER DESIGNATION		THREAD LENGTH[3], (inches)	*W* (lbf/in.) FOR SPECIFIC GRAVITIES (SG) OF:			
			SG ≥ 0.67[4]	0.58 ≥ SG ≥ 0.55	0.55 > SG ≥ 0.49	0.49 > SG ≥ 0.42
R4	9x2"	1 1/4	213	215	179	125
	10x2 1/2"	1 5/8	123	240	193	144
	10x2 3/4"	1 7/8				
	10x3 1/8"	1 5/8 (2 1/8)				
	10x4"	2 5/8				
FIN/TRIM RT COMPOSITE	8x2 1/2"	1 5/8	106	n/a	n/a	n/a
	8x2 3/4"	1 7/8				
	8x3 1/8"	2 1/8				
	9x2 1/2"	1 5/8	115	n/a	n/a	n/a
	9x2 3/4"	1 7/8				
	9x3 1/8"	2 1/8				

For **SI:** 1 inch = 25.4 mm; 1 lbf/in = 175 N/m.

[1]Tabulated reference withdrawal design values (*W*) are in pounds per inch of thread penetration into side grain of main member.
[2]Values must be multiplied by applicable adjustment factors, in accordance with the NDS, and must be multiplied by the length of thread penetration in the main member, including tip.
[3]Where two thread lengths are shown, the first refers to thread length of screws marked with "GRK" on the fastener head, and the second refers to screws which do not have this marking on the head.
[4]Pilot holes equal to 70% of the root diameter of the screw are required, and the tabulated values are applicable to connections subject to tension load only, due to differing pilot hole requirements for lateral connections.

TABLE 3B— REFERENCE PULL-THROUGH DESIGN VALUES (*P*) FOR PHEINOX™ STAINLESS STEEL FASTENERS[1]

FASTENER DESIGNATION		MINIMUM SIDE MEMBER THICKNESS (inch)	*P* (lbf) FOR SPECIFIC GRAVITIES (SG) OF:			
			SG ≥ 0.67[2]	0.58 ≥ SG ≥ 0.55	0.55 > SG ≥ 0.49	0.49 > SG ≥ 0.42
R4	9x2"	3/4	184	119	107	83
	10x2 1/2"	3/4	220	140	126	103
	10x2 3/4"					
	10x3 1/8"					
	10x4"					
FIN/TRIM RT COMPOSITE	8x2 1/2"	3/4	70	n/a	n/a	n/a
	8x2 3/4"					
	8x3 1/8"					
	9x2 1/2"	3/4	124	n/a	n/a	n/a
	9x2 3/4"					
	9x3 1/8"					

For **SI:** 1 inch = 25.4 mm; 1 lbf = 4.45 N.

[1]Values must be multiplied by applicable adjustment factors, in accordance with the NDS.
[2]Pilot holes equal to 90% of the root diameter of the screw are required, and the tabulated values are applicable to connections subject to tension load only.

TABLE 4A— REFERENCE LATERAL DESIGN VALUES (Z) FOR WOOD-TO-WOOD CONNECTIONS USING CLIMATEK™ COATED FASTENERS[1]

FASTENER DESIGNATION		SIDE MEMBER THICKNESS (inch)	MINIMUM MAIN MEMBER PENETRATION (inches)	Z (lbf) FOR SPECIFIC GRAVITIES (SG) OF:			
				SG ≥ 0.67[2]	0.58 ≥ SG ≥ 0.55	0.55 > SG ≥ 0.49	0.49 > SG ≥ 0.42
R4	9x2"	3/4	1 1/4	175	103	89	75
	9x2 1/2"						
	9x2 3/4"						
	9x3 1/8"						
	10x2 1/2"	3/4	1 3/4	203	121	97	95
	10x2 3/4"						
	10x3 1/8"						
	10x3 1/2"						
	10x4"						
	10x4 3/4"						
	12x4 3/4"	3/4	4	242	122	119	110
	12x5 5/8"						
	12x6 3/8"						
	12x7 1/4"						
	12x8"						
	12x10"						
	12x12"						
FIN/TRIM	8x2 1/2"	3/4	1 3/4	84	—	—	—
	8x2 3/4"						
	8x3 1/8"						
	9x2 1/2"	3/4	1 3/4	104	—	—	—
	9x2 3/4"						
	9x3 1/8"						

For **SI:** 1 inch = 25.4 mm; 1 lbf = 4.45 N.

[1]Values must be multiplied by applicable adjustment factors, in accordance with the NDS.
[2]Pilot holes equal to 90% of the root diameter of the screw are required, and the tabulated values are applicable to connections subject to lateral load only, due to differing pilot hole requirements for tension connections.

TABLE 4B— REFERENCE LATERAL DESIGN VALUES (Z) FOR WOOD-TO-WOOD CONNECTIONS USING PHEINOX™ STAINLESS STEEL FASTENERS[1]

FASTENER DESIGNATION		SIDE MEMBER THICKNESS (inch)	MINIMUM MAIN MEMBER PENETRATION (inches)	Z (lbf) FOR SPECIFIC GRAVITIES (SG) OF:			
				SG ≥ 0.67[2]	0.67 > SG ≥ 0.55	0.55 > SG ≥ 0.49	0.49 > SG ≥ 0.42
R4	9x2"	3/4	1 1/4	212	128	110	87
	10x2 1/2"	3/4	1 3/4	235	135	110	102
	10x2 3/4"						
	10x3 1/8"						
	10x4"						
FIN/TRIM	8x2 1/2"	3/4	1 3/4	78	—	—	—
	8x2 3/4"						
	8x3 1/8"						
	9x2 1/2"	3/4	1 3/4	108	—	—	—
	9x2 3/4"						
	9x3 1/8"						
RT COMPOSITE	8x2 1/2"	3/4	1 3/4	107	—	—	—
	8x2 3/4"						
	8x3 1/8"						
	9x2 1/2"	3/4	1 3/4	151	—	—	—
	9x2 3/4"						
	9x3 1/8"						

For **SI:** 1 inch = 25.4 mm; 1 lbf = 4.45 N.

[1]Values must be multiplied by applicable adjustment factors, in accordance with the NDS.
[2]Pilot holes equal to 90% of the root diameter of the screw are required, and the tabulated values are applicable to connections subject to lateral load only, due to differing pilot hole requirements for tension connections.

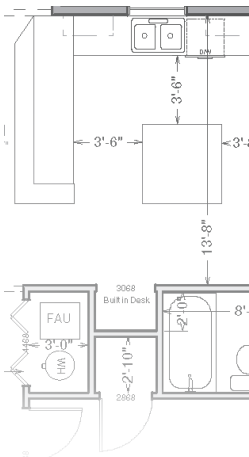


TABLE 5—CONNECTION GEOMETRY REQUIREMENTS[1,2]

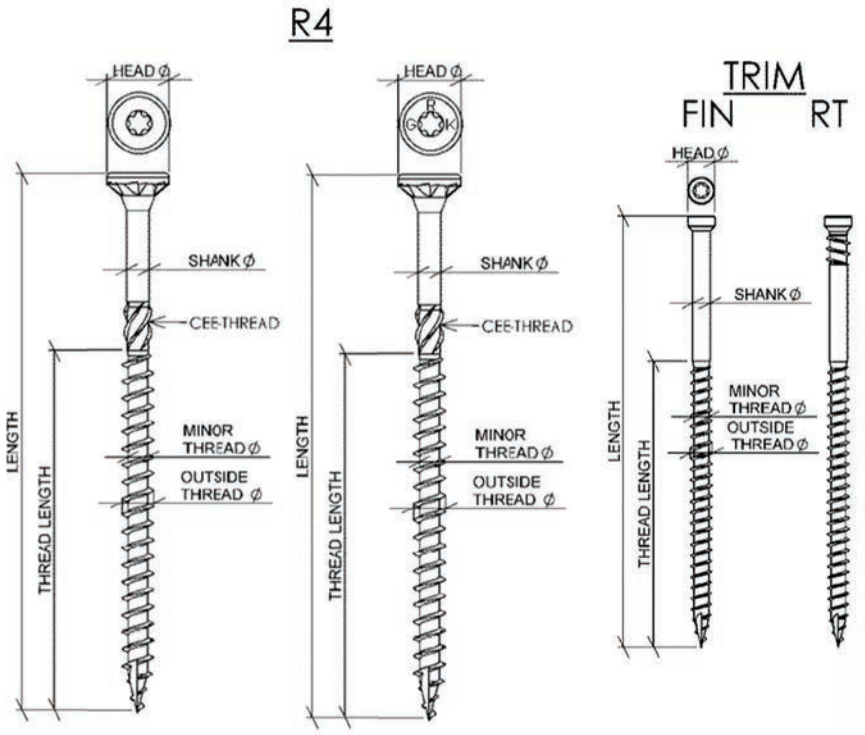
CONDITION		MINIMUM DISTANCE OR SPACING (inches)			
		D = 0.111"	D = 0.128-0.134"	D = 0.142"	D = 0.171"
End distance	Loading toward end	2	2	2 1/8	2 5/8
	Loading away from end	1 1/8	1 1/4	1 3/8	1 3/4
	Loading perpendicular to grain	NA[3]	NA[3]	NA[3]	NA[3]
Edge distance	Loading parallel to grain	1	1	1 1/8	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.

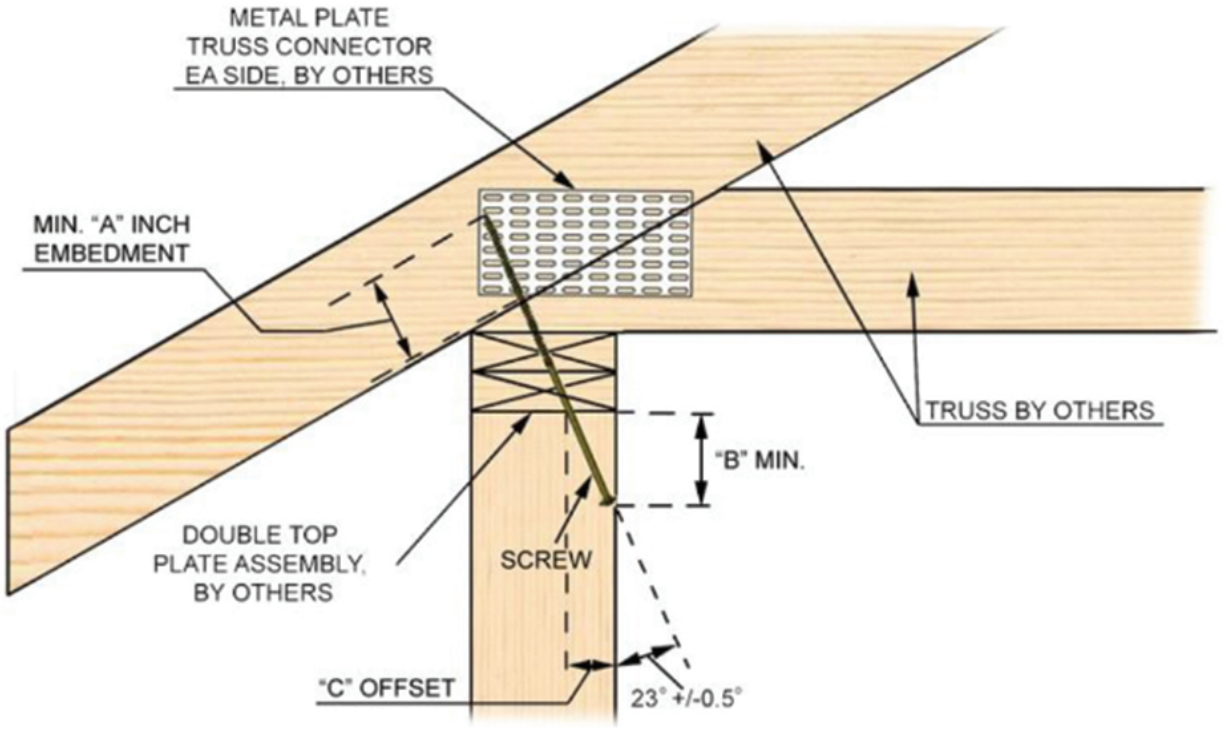


Roof Joist or Roof Truss to Top Plate or Stud Connection

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

Table1 **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					
	2	16	318					
	2	12	424					
	3	24	318					
	3	16	477					
	3	12	636					
¼ x 5"	2	24		212		238		
	2	16		318		357		
	2	12		424		476		
	3	24		318		357		
	3	16		477		536		
	3	12		636		714		
¼ x 6-3/4"	2	24			212		255	238
	2	16			318		383	357
	2	12			424		510	476
	3	24			318		383	357
	3	16			477		575	536
	3	12			636		766	714

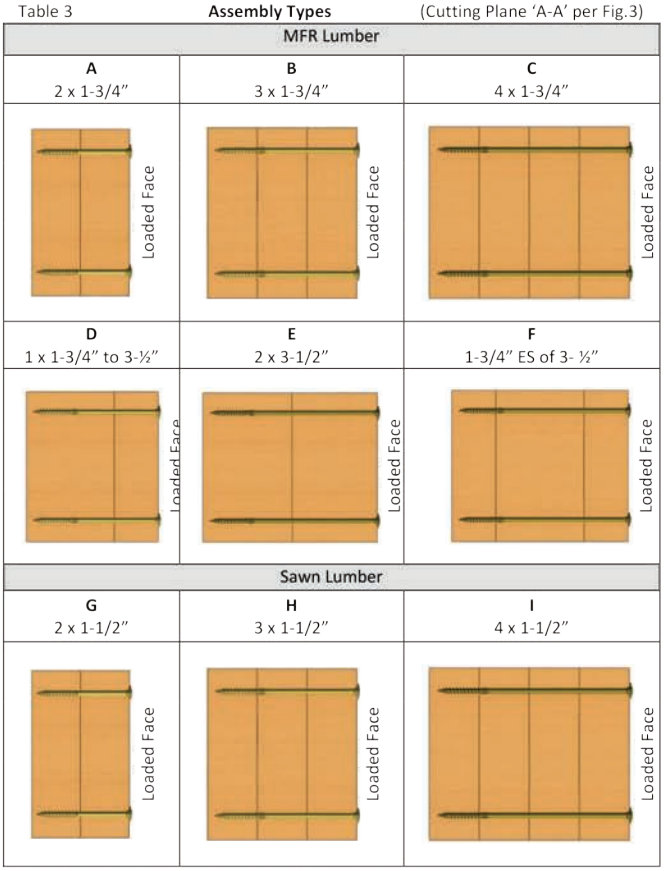
Note: 1. Applied load from joist are assumed to be uniform
2. Fastener capacity is based on fastener spacing , not joist spacing

Table 2 **Sawn Lumber with Varying Specific Gravity values**

RSS	# of Screw rows	Fastener Spacing in inches	Allowable Face Mounted Loads Per Foot (PLF)			
			S.Pine G=0.55	D.Fir G=0.50	SPF G=0.42	Assembly per Table 3
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)



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

ABBREVIATIONS:

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

Minimum Spacing Geometry - perpendicular to grain loading

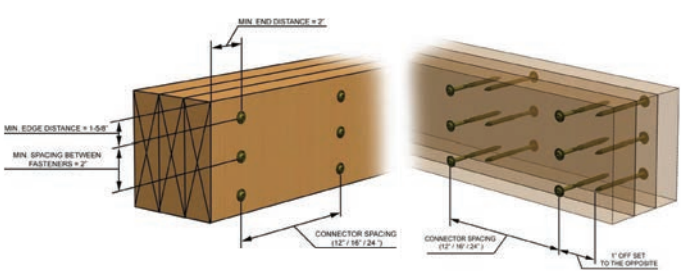


Figure 1 a Figure 1 b

Multi-Ply Beam with One Face Loaded

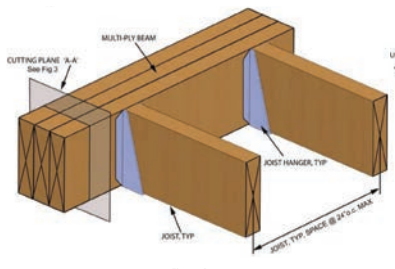


Figure 2

Cutting Plane 'A-A'

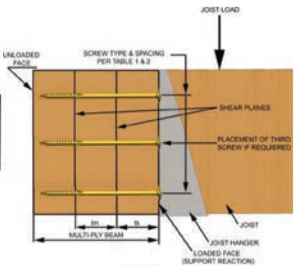
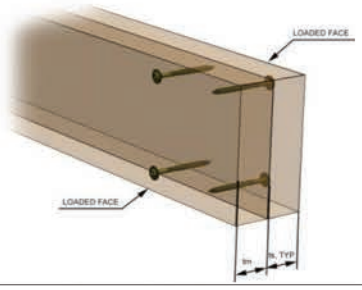


Figure 3

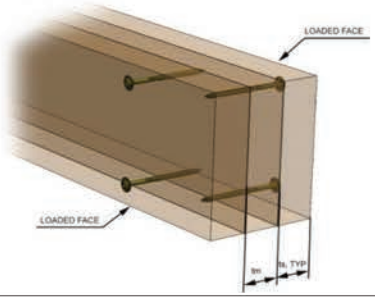
Multi-Ply Beams w/loads on Both Faces

Table 4

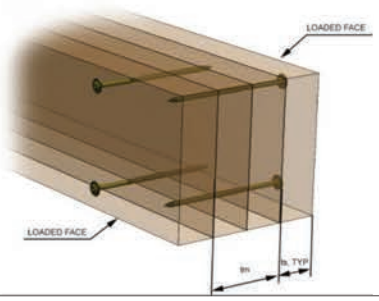
2- PLY (Assembly Types A,E,G)



3 - PLY (Assembly Types B,F,H)



4 - PLY (Assembly Types C,I)



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 **			
		S.Pine G=0.55	D.Fir G=0.50	SPF G=0.42	Assembly
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	

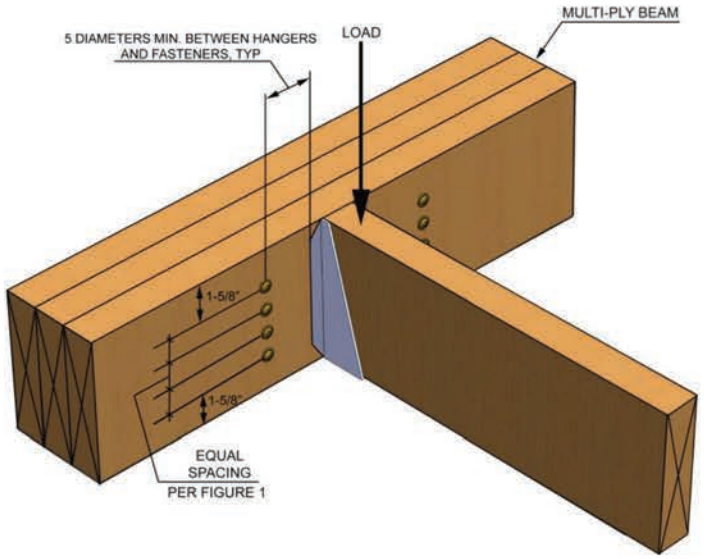


Figure 5

** 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

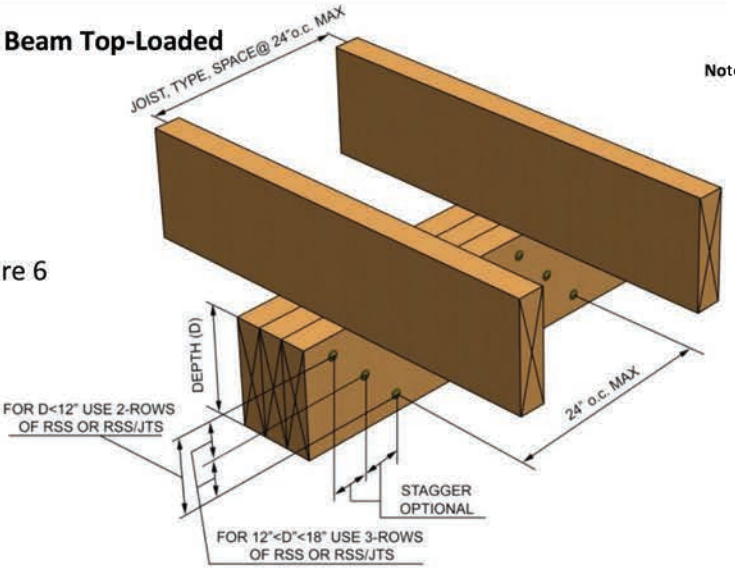


Figure 6

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

***PHE*INOX** 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)

***PHE*INOX** 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

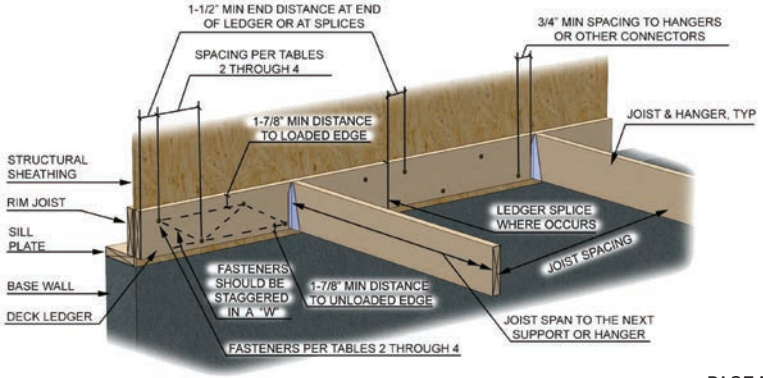


TABLE 2—TENSION STRENGTH DESIGN INFORMATION FOR TAPCON® SCREW ANCHOR[1]

CHARACTERISTIC	SYMBOL[5]	UNITS	NOMINAL ANCHOR DIAMETER (inch)[4]	
			$^3/_{16}$	$^1/_4$
Head Style	—	—	Hex Head/ Phillips Head	Hex Head/ Phillips Head
Drill bit specification		in.	$^5/_{32}$ Tapcon® Bit	$^3/_{16}$ Tapcon® Bit
Anchor category	1, 2 or 3	—	1	1
Effective embedment depth	h_{ef}	in.	1.50	1.50
Minimum concrete member thickness	h_{min}	in.	4	4
Critical edge distance	c_{ac}	in.	4	4
Data for Steel Strength in Tension				
Minimum specified yield strength	f_y	psi	100,000	100,000
Minimum specified ultimate strength	f_{uta} (f_{ut})[5]	psi	125,000	125,000
Effective tensile stress area	A_{se}	in^2	0.0147	0.0241
Steel strength in tension	N_{sa}	lbf	2,025	3,800
Strength reduction factor ϕ for tension, steel failure modes[2]	ϕ_{sa}	—	0.65	0.65
Data for Concrete Breakout Strength in Tension				
Effectiveness factor -uncracked concrete	k_{uncr}	—	24	24
Modification factor for cracked and uncracked concrete[3]	$\Psi_{c,N}$ (Ψ_3)[4]	—	1.0	1.0
Strength reduction factor ϕ for tension, concrete failure modes, Condition B[3]	ϕ_{cb}	—	0.65	0.65
Data for Pullout Strength in Tension				
Pullout strength, uncracked concrete	$N_{p,uncr}$	lbf	590	795
Strength reduction factor ϕ for tension, pullout failure modes, Condition B[3]	ϕ_p	—	0.65	0.65
Additional Anchor Data				
Axial stiffness in service load range in uncracked concrete	β_{uncr}	lbf /in	317,000	467,000

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

TABLE 3—SHEAR STRENGTH DESIGN INFORMATION FOR TAPCON® SCREW ANCHOR[1]

CHARACTERISTIC	SYMBOL[5]	UNITS	NOMINAL ANCHOR DIAMETER (inch)[4]	
			$^3/_{16}$	$^1/_4$
Head Style	—	—	Hex Head/Phillips Head	Hex Head/Phillips Head
Drill bit specification		in.	$^5/_{32}$ Tapcon® Bit	$^3/_{16}$ Tapcon® Bit
Anchor category	1, 2 or 3	—	1	1
Effective embedment depth	h_{ef}	in.	1.50	1.50
Minimum concrete member thickness	h_{min}	in.	4	4
Critical edge distance	c_{ac}	in.	4	4
Data for Steel Strengths in Shear				
Minimum specified yield strength	f_y	psi	100,000	100,000
Minimum specified ultimate strength	f_{uta} (f_{ut})[4]	psi	125,000	125,000
Effective shear stress area	A_{se}	in^2	0.0147	0.0241
Steel strength in shear - static	V_{sa}	lbf	715	1,300
Strength reduction factor ϕ for shear, steel failure modes[2]	ϕ_{sa}	—	0.60	0.60
Data for Concrete Breakout and Concrete Pryout Strengths in Shear				
Nominal Outside diameter (shank)	d_a (d_o)[4]	in.	0.15	0.19
Load bearing length of anchor	ℓ_e	—	1.50	1.50
Coefficient for Pryout Strength	κ_{cp}	—	1.0	1.0
Strength reduction factor for shear, concrete breakout[3]	ϕ_{cb}	—	0.70	0.70
Strength reduction factor for shear, pryout[3]	ϕ_{cp}	—	0.70	0.70

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

TABLE 1—INSTALLATION INFORMATION FOR TAPCON+ SCREW ANCHORS

CHARACTERISTIC	SYMBOL	UNITS	NOMINAL ANCHOR DIAMETER (inch)					
			1/4	1/4		3/8	1/2	
Head Style	—	—		Hex Head		Hex Head	Hex Head	
Nominal Outside diameter (Shank)	d_a (d_o)[3]	in.	0.25	0.25		0.38	0.50	
Nominal Outside diameter (threads)	—	in.	0.33	0.33		0.46	0.59	
Drill bit specification	d_{bit}	in.	1/4 Tapcon+ Bit	1/4 Tapcon+ Bit	1/4 ANSI Bit	3/8 ANSI Bit	1/2 ANSI Bit	
Minimum base plate clearance hole diameter	d_h	in.	Not applicable[2]	3/8		1/2	5/8	
Maximum installation torque[5]	$T_{inst,\ max}$	ft-lbf	Not applicable[4]	20		50	70	
Maximum Impact Wrench Torque Rating	$T_{impact,\ max}$	ft-lbf	Not applicable[4]	115		200	345	
Effective embedment depth	h_{ef}	in.	1.67	1.45		1.78	1.32	2.17	3.02
Minimum nominal embedment depth[6]	h_{nom}	in.	2 1/4	2		2 1/2	2	3	4
Minimum hole depth	h_{hole}	in.	2 1/2	2 1/4		2 3/4	2 1/4	3 1/4	4 1/4
Minimum concrete member thickness	h_{min}	in.	4	4		4	4	6	
Critical edge distance	c_{ac}	in.	2 1/2	2 1/2		4 1/2	3	4	5
Minimum edge distance	c_{min}	in.	1 1/2	1 1/2		1 1/2	2 1/2	1 3/4	2 1/2
Minimum spacing	s_{min}	in.	3	3		3	3	3 1/2	3

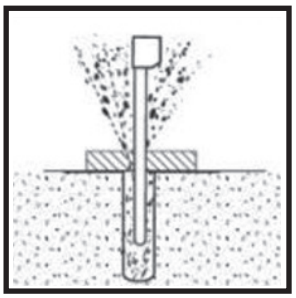
For **SI:** 1 inch = 25.4 mm, 1 ft-lbf = 1.356 N-m.

TABLE 2—TENSION STRENGTH DESIGN INFORMATION FOR TAPCON+ SCREW ANCHORS

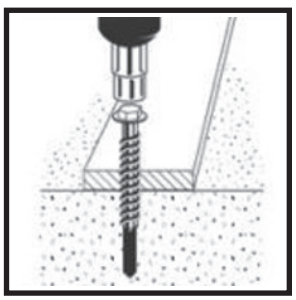
CHARACTERISTIC	SYMBOL	UNITS	NOMINAL ANCHOR DIAMETER (inch)						
			1/4	1/4		3/8	1/2		
Head Style	—	—		Hex Head		Hex Head	Hex Head		
Drill bit specification		in.	1/4 Tapcon+ Bit	1/4 Tapcon+ Bit	1/4 ANSI Bit	3/8 ANSI Bit	1/2 ANSI Bit		
Anchor category	1, 2 or 3	—	1	1	2	1	1		
Effective embedment depth	h_{ef}	in.	1.45[6]	1.45		1.78	1.32	2.17	3.02
Minimum concrete member thickness	h_{min}	in.	4	4		4	4	6	
Critical edge distance	c_{ac}	in.	2 1/2	2 1/2		4 1/2	3	4	5
Data for Steel Strength in Tension									
Minimum specified yield strength	f_y	psi	Not applicable	100,000		100,000	100,000		
Minimum specified ultimate strength	f_{uta} (f_{ut})[5]	psi	Not applicable	125,000		125,000	125,000		
Effective tensile stress area	A_{se}	in^2	Not applicable	0.0470		0.098	0.1850		
Steel strength in tension	N_{sa}	lbf	1,822[7]	5,900		12,250	23,125		
Strength reduction factor ϕ for tension, steel failure modes[2]	ϕ_{sa}	—	0.65	0.65		0.65	0.65		
Data for Concrete Breakout Strength in Tension									
Effectiveness factor - uncracked concrete	k_{uncr}	—	24	24		27	30		
Effectiveness factor - cracked concrete	k_{cr}	—	17	17		17	17		
Modification factor for cracked and uncracked concrete[3]	$\Psi_{c,N}$ (Ψ_3)[5]	—	1.0	1.0		1.0	1.0		
Strength reduction factor ϕ for tension, concrete failure modes, Condition B[3]	ϕ_{cb}	—	0.65	0.65	0.55	0.65	0.65		
Data for Pullout Strength in Tension									
Pullout strength, uncracked concrete	$N_{p,uncr}$	lbf	2,107	2,107		See Footnote 4	See Footnote 4		
Pullout strength, cracked concrete	$N_{p,cr}$	lbf	857	857		1,837	See Footnote 4		
Pullout strength for seismic loads	$N_{p,eq}$	lbf	857	857		1,677	See Footnote 4		
Strength reduction factor ϕ for tension, pullout failure modes, Condition B[3]	ϕ_p	—	0.65	0.65	0.55	0.65	See Footnote 4		
Additional Anchor Data									
Axial stiffness in service load range in uncracked concrete	β_{uncr}	lbf /in	385,000	385,000		800,000	800,000		
Axial stiffness in service load range in cracked concrete	β_{cr}	lbf /in	225,000	225,000		365,000	365,000		

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

1



2



3

TABLE 3—SHEAR STRENGTH DESIGN INFORMATION FOR TAPCON+ SCREW ANCHORS

CHARACTERISTIC	SYMBOL	UNITS	NOMINAL ANCHOR DIAMETER (inch)							
			1/4	1/4		3/8	1/2			
Head Style	—	—		Hex Head		Hex Head	Hex Head			
Drill bit specification		in.	1/4 Tapcon+ Bit	1/4 Tapcon+ Bit	1/4 ANSI Bit	3/8 ANSI Bit	1/2 ANSI Bit			
Anchor category	1, 2 or 3	—	1	1	2	1	1			
Minimum effective embedment depth	h_{ef}	in.	1.45[6]	1.45		1.78	1.32	2.17	3.02	
Minimum concrete member thickness	h_{min}	in.	4	4		4	4	6		
Critical edge distance	c_{ac}	in.	2 1/2	2 1/2		4 1/2	3	4	5	
Data for Steel Strengths in Shear										
Minimum specified yield strength	f_y	psi	Not applicable	100,000		100,000	100,000			
Minimum specified ultimate strength	f_{uta} (f_{ut})[4]	psi	Not applicable	125,000		125,000	125,000			
Effective shear stress area	A_{se}	in^2	Not applicable	0.047		0.098	0.185			
Steel strength in shear - static	V_{sa}	lbf	905[7]	2,045		3,621	12,610			
Steel strength in shear - seismic	$V_{sa,eq}$		Not applicable[5]	1,350		2,920	9,300			
Strength reduction factor ϕ for shear, steel failure modes[2]	ϕ_{sa}	—	0.60	0.60		0.60	0.60			
Data for Concrete Breakout and Concrete Pryout Strengths in Shear										
Nominal Outside diameter (shank)	d_a (d_o)[4]	in.	0.25	0.25		0.38	0.50			
Load bearing length of anchor	ℓ_e	—	1.67	1.45		1.78	1.32	2.17	3.02	
Coefficient for Pryout Strength	κ_{cp}	—	1.0	1.0		1.0	1.0		2.0	
Strength reduction factor for shear, concrete breakout[3]	ϕ_{cb}	—	0.70	0.70		0.70	0.70			
Strength reduction factor for shear, pryout[3]	ϕ_{cp}	—	0.70	0.70		0.70	0.70			

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

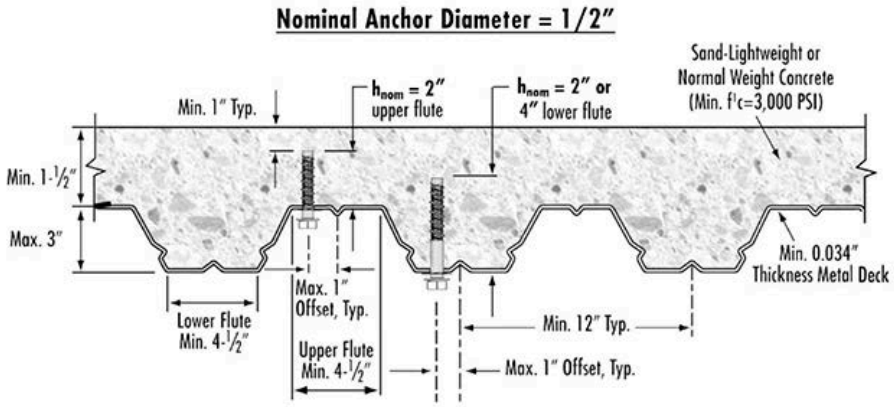


FIGURE 6—TAPCON+ SCREW ANCHOR LOCATED IN THE SOFFIT OF CONCRETE OVER STEEL DECK FLOOR AND ROOF ASSEMBLIES (1 inch = 25.4 mm)

TABLE 2—CONCRETE BREAKOUT DESIGN INFORMATION FOR U.S. CUSTOMARY UNIT THREADED ROD [1]

CHARACTERISTIC	SYMBOL	UNITS	NOMINAL ROD DIAMETER (inch)						
			3/8	1/2	5/8	3/4	7/8	1	1 1/4
Effectiveness factor for uncracked concrete	k_{uncr}	-	24	24	24	24	24	24	24
Effectiveness factor for cracked concrete	k_{cr}	-	17	17	17	17	17	17	17
Minimum concrete thickness	h_{min}	in.	h_{ef} + 1 1/4		h_{ef} + 2d_o				
Anchor embedment depth - minimum	$h_{ef,min}$	in.	2 3/8	2 3/4	3 1/8	3 1/2	3 1/2	4	5
Minimum spacing	s_{min}	in.	15/16	1 1/2	2 1/2	3	3 1/2	4	5
Minimum edge distance	c_{min}	in.	15/16	1 1/2	2 1/2	3	3 1/2	4	5
Critical edge distance	c_{ac}	in.	See Section 4.1.10 of this report						
Strength reduction factor for tension, concrete failure mode[1]	ϕ	Cond. B	0.65	0.65	0.65	0.65	0.65	0.65	0.65
Strength reduction factor for shear, concrete failure mode[1]	ϕ	Cond. B	0.70	0.70	0.70	0.70	0.70	0.70	0.70

For **SI:** 1 inch = 25.4mm, 1 lbf = 4.45N, 1ft-lbf = 1.356 N-M, 1 psi = 0.006895 MPa.

TABLE 3—RED HEAD EPCON A7+ ADHESIVE ANCHOR BOND STRENGTH DESIGN INFORMATION FOR U.S. CUSTOMARY UNIT THREADED ROD [1,4]

	CHARACTERISTIC	SYMBOL	UNITS	NOMINAL ROD DIAMETER (inch)						
				3/8	1/2	5/8	3/4	7/8	1	1 1/4
	Anchor embedment depth - minimum	h_{ef}	in.	2 3/8	2 3/4	3 1/8	3 1/2	3 1/2	4	5
	Anchor embedment depth - maximum	h_{ef}	in.	7 1/2	10	12 1/2	15	17 1/2	20	25
Temperature Range A[2]	Characteristic Bond Strength for Uncracked Concrete	$\tau_{k,uncr}$	psi	1,770	1,770	1,770	1,770	1,490	1,490	1,490
	Characteristic Bond Strength for Cracked Concrete	$\tau_{k,cr}$	psi	1,060	790	860	890	695	655	585
Temperature Range B[3]	Characteristic Bond Strength for Uncracked Concrete	$\tau_{k,uncr}$	psi	1,275	1,275	1,275	1,275	1,080	1,080	1,080
	Characteristic Bond Strength for Cracked Concrete	$\tau_{k,cr}$	psi	765	570	620	640	500	475	420
Continuous Inspection	Strength Reduction Factor - Dry Concrete	$\phi_{dry,ci}$	-	0.65	0.65	0.65	0.65	0.65	0.65	0.65
	Strength Reduction Factor – Water-Saturated Concrete	$\phi_{sat,ci}$	-	0.65	0.65	0.65	0.65	0.65	0.65	0.65
	Strength Reduction Factor - Water-Filled Holes	$\phi_{wf,ci}$	-	0.65	0.65	0.65	0.65	0.65	0.65	0.65
	Strength Reduction Factor - Submerged Concrete	$\phi_{sub,ci}$	-	0.65	0.55	0.55	0.65	0.65	0.55	0.65
Periodic Inspection	Strength Reduction Factor - Dry Concrete	$\phi_{dry,pi}$	-	0.55	0.55	0.55	0.55	0.55	0.55	0.65
	Strength Reduction Factor – Water-Saturated Concrete	$\phi_{sat,pi}$	-	0.65	0.65	0.65	0.65	0.65	0.65	0.65
	Strength Reduction Factor - Water-Filled Holes	$\phi_{wf,pi}$	-	0.65	0.65	0.65	0.65	0.65	0.65	0.65
	Strength Reduction Factor - Submerged Concrete	$\phi_{sub,pi}$	-	0.65	0.45	0.45	0.65	0.55	0.45	0.65
	Reduction factor for seismic tension	$\alpha_{N,seis}$	-	0.89	0.75	0.76	0.66	0.77	0.80	0.80

For **SI:** 1 inch = 25.4mm, 1 lbf = 4.45N, 1ft-lbf = 1.356 N-M, 1 psi = 0.006895 MPa.

TABLE 2—ITW RED HEAD TRUBOLT WEDGE ANCHOR INSTALLATION INFORMATION

	SYMBOL	UNITS	NOMINAL ANCHOR DIAMETER (in.)					
			1/4		3/8		1/2	
Anchor outer diameter	d_a	in. (mm)	0.25 (6.4)		0.375 (9.5)		0.5 (12.7)	
Nominal carbide bit diameter	d_{bit}	in. (mm)	1/4		3/8		1/2	
Effective embedment depth	h_{ef}	in. (mm)	1 1/2 (38)	2 (51)	1 3/4 (44)	2 5/8 (67)	1 7/8 (48)	3 3/8 (86)
Nominal Embedment depth	h_{nom}	in. (mm)	1 3/4 (44)	2 1/4 (57)	2 1/4 (57)	3 1/8 (79)	2 1/2 (64)	4 (102)
Minimum hole depth	h_o	in. (mm)	2 (51)	2 1/2 (64)	2 1/2 (64)	3 3/8 (86)	2 3/4 (70)	4 1/4 (108)
Minimum concrete member thickness	h_{min}	in. (mm)	4 (102)		4 (102)	5 (127)	5 (127)	6 (152)
Critcial edge distance	c_{ac}	in. (mm)	2 5/8 (67)	3 (76)	2 5/8 (67)	5 1/4 (133)	3 3/4 (95)	6 3/4 (171)
Minimum edge distance	c_{min}	in. (mm)	1 3/4 (44)	1 1/2 (38)	2 1/4 (57)	2 (51)	3 3/4 (95)	3 3/4 (95)
Minimum anchor spacing	s_{min}	in. (mm)	1 3/4 (44)	1 1/2 (38)	2 1/4 (57)	2 (51)	3 3/4 (95)	3 3/4 (95)
Installation torque	T_{inst}	ft-lb (N-m)	4 (5)		25 (34)		55 (75)	
Reference (attachment) hole diameter	d_h	in. (mm)	5/16 (7.9)		7/16 (11.1)		9/16 (14.3)	

TABLE 3—ITW TRUBOLT WEDGE ANCHOR DESIGN INFORMATION[1,2,3]

DESIGN INFORMATION	SYMBOL	UNITS	NOMINAL ANCHOR DIAMETER					
			1/4		3/8		1/2	
Anchor O.D.	d_o	in	0.250		0.375		0.500	
		mm	6.4		9.5		12.7	
Effective min. embedment	h_{ef}	in	1 1/2	2	1 3/4	2 5/8	1 7/8	3 3/8
		mm	38	51	44	67	48	86
Minimum member thickness	h_{min}	in	4	4	4	5	5	6
		mm	102	102	102	127	127	152
Installation Torque	T_{inst}	ft-lb	4		25		55	
		N-m	5		34		75	
Critcial edge distance	c_{ac}	in	2 5/8	3	2 5/8	5 1/4	3 3/4	6 3/4
		mm	67	76	67	133	95	171
Minimum edge distance	c_{min}	in	1 3/4	1 1/2	2 1/4	2	3 3/4	3 3/4
		mm	44	38	57	51	95	95
Minimum anchor spacing	s_{min}	in	1 3/4	1 1/2	2 1/4	2	3 3/4	3 3/4
		mm	44	38	57	51	95	95
Min. hole depth in concrete	h_o	in	2	2 1/2	2 1/2	3 3/8	2 3/4	4 1/4
		mm	51	64	64	86	70	108
Min. Specified Yield Strength	f_{ya}	lb/in^2	55,000					
		N/mm^2	379					
Min. Specified Ultimate Strength	f_{uta}	lb/in^2	75,000					
		N/mm^2	517					
Effective tensile stress area	$A_{se,N}$	in^2	0.032		0.078		0.142	
		mm^2	20.5		50.0		91.5	
Effective shear stress area	$A_{se,V}$	in^2	0.032		0.078		0.142	
		mm^2	20.5		50.0		91.5	
Steel strength in tension	N_{sa}	lb	2385		5815		10645	
		kN	10.6		25.9		47.3	
Steel strength in shear	V_{sa}	lb	1430	2975	3490	4450	6385	
		kN	6.4	13.2	15.5	19.8	28.4	
Pullout strength, uncracked concrete	$N_{p,uncr}$	lb	See Table 4					
		kN						

TABLE 3—ITW TRUBOLT WEDGE ANCHOR DESIGN INFORMATION[1,2,3]

DESIGN INFORMATION	SYMBOL	UNITS	NOMINAL ANCHOR DIAMETER					
			1/4		3/8		1/2	
Anchor O.D.	d_o	in	0.250		0.375		0.500	
		mm	6.4		9.5		12.7	
Anchor Category			1					
Effectiveness factor k_{uncr} uncracked concrete[5]			24					
Coefficient for pryout strength	k_{cp}	-	1.0	1.0	1.0	2.0	1.0	2.0
Axial stiffness in service load range	β	lb/in	14,651	9,385	17,515	26,424	32,483	26,136
		kN/mm	2.6	1.6	3.1	4.6	5.7	4.6
Coefficient of variation for axial stiffness in service load range			34	47	28	45	17	33
Strength reduction factor for tension, steel failure modes	ϕ	—	0.75					
Strength reduction factor for shear, steel failure modes	ϕ	—	0.65					
Strength reduction factor for tension, concrete failure modes, Condition B[4]	ϕ	—	0.65					
Strength reduction factor for shear, concrete failure modes, Condition B[4]	ϕ	—	0.70					

For **SI:** 1 inch = 25.4 mm, 1 lbf = 4.45 N, 1 psi = 0.006895 Mpa. For pound-inch units: 1 mm = 0.03937 inch.

TABLE 4—ITW TRUBOLT WEDGE ANCHOR PULLOUT STRENGTH, $N_{p,uncr}$[1,2]

NOMINAL ANCHOR DIAMETER (in.)	EFFECTIVE EMBEDMENT DEPTH (in.)	CONCRETE COMPRESSIVE STRENGTH			
		f'c = 2,500 psi	f'c = 3,000 psi	f'c = 4,000 psi	f'c = 6,500 psi
1/4	1 1/2	1,392	1,525	1,610	1,822
	2	1,706	1,869	1,947	2,151
3/8	1 7/8	2,198	2,408	2,621	3,153
	2 5/8	3,469	3,800	3,936	4,275
1/2	1 7/8	2,400	2,629	3,172	4,520
	3 3/8	4,168	4,520	4,520	4,520

For **SI:** 1 inch = 25.4 mm, 1 lbf = 4.45 N, 1 psi = 0.006895 MPa.

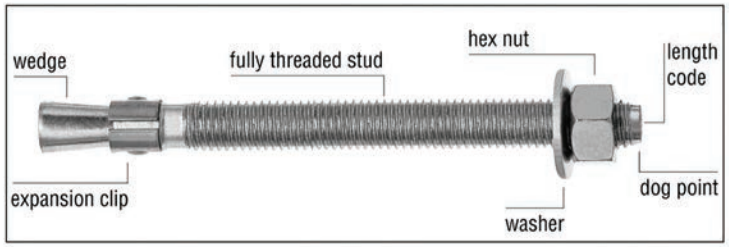
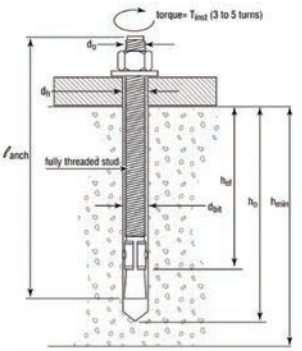


FIGURE 1—ITW RED HEAD TRUBOLT WEDGE ANCHOR



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.

Liability: Claims against GRK Fasteners™ shall be limited to a refund or credit for the price billed or paid for faulty or incorrect merchandise. Seller shall not be responsible for buyer's manufacturing costs, labor, alternate purchases, extra freight, replating, plating, lost profit, good will, recall costs, or other incidental or consequential damages.

Warranties: GRK Fasteners™ ("GRK") warrants to the first retail purchaser that its Climatek™ coated and *PHE*INOX™ stainless steel screws will not rust under normal environmental conditions when used in accordance with the recommendations listed in GRK's Screw Selection Guide for the life of the project. This warranty is not transferable. Visit www.grkfasteners.com for more information.

Mechanical Fastening Warranty: (Includes Tapcon, Red Head, Ramset, Teks, Rock-On, Backer-On, and E-Z Ancor). ITW Brands warrants that this product is free from defects in material and workmanship. ITW Brands' sole liability for any breach of this warranty shall be to replace this product or refund the purchase price.

Refunds: In order to receive a refund, the customer must return to us at least 50 of the defective screws (including screw heads) for verification.

THERE ARE NO UNDERSTANDINGS, AGREEMENTS, REPRESENTATIONS OR ADDITIONAL WARRANTIES, EXPRESSED OR IMPLIED (INCLUDING ANY REGARDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), NOT SPECIFIED HEREIN, RESPECTING ANY SALE OF PRODUCTS BY GRK FASTENERS™, (TO THE EXTENT PERMITTED BY LAW).

FULL-LINE CATALOG

Part #99915
March 2020

ITW CONSTRUCTION | **RESIDENTIAL AND RENOVATION**
155 Harlem Ave., Building N3E | Glenview, IL 60025