



PROSOCO

# GRIP-TIE

## Mechanical repair anchors for stabilizing existing facades

We help you get a grip on your facade problems! Add high-strength mechanical anchors to an existing brick facade to fortify and stabilize against external forces. PROSOCO Grip-Ties, formerly called CTP Grip Ties, are an excellent solution to re-anchor a masonry or stone facade to metal or wood stud, structural steel, tile, block, concrete, and brick.



**TORQUE-ACTIVATED  
GRIPPING ACTION**



**NO EXPOSED  
HARDWARE**



**CORROSION-  
RESISTANT**



**NO DISTURBING  
HAMMERING ACTIVITY**



**EASY POST-INSTALL  
QUALITY CONTROL**



**SECURES VARIETY OF  
WALL MAKEUPS**

### Mechanical Grip

Brass shield expanders for flexible & durable gripping action

### Durable Materials

Every component is corrosion-resistant

### Engineered Shaft Design

A stainless steel connector for the backup and veneer anchorage that provides for flexibility during thermal cycles and strength to resist live loads

### Jobsite Quality Control

Mechanical activation provides a means to inspect during installation and after by either torque measurement or tension testing

### Stabilizing Grip

The design of the anchor prevents drawing the wythes of material together which prevents additional lateral stresses

**5100 Grip-Tie  
shown here**



# GRIP-TIE

## Mechanical Repair Anchors for Stabilizing Existing Facades

### Product Line Description

Typically, masonry facades are intended to resist wind loads. In lieu of tear-down or replacement, an existing masonry or terra cotta facade can be fortified by the addition of mechanical ties or anchors. The Grip-Tie anchors provide additional facade stability, which may be needed to fulfill a myriad of requirements. The Grip-Tie selection process evolves by evaluating the type of anchors one can use to satisfy the repair (compatibility) and strengthening criteria. Also, one cannot ignore the means and methods of installation which can also influence the remedial anchor choice.

Post-installed Grip-Tie repair anchors are available to accomplish the task. When dealing with a repair situation, the as-built material quality and current building conditions are often unknown. It is therefore not uncommon that installation criteria and performance qualification be obtained via field tests in order to confirm design assumptions. The Grip-Tie mechanical repair anchors consist of a dual expansion anchor for a mechanical connection that grips the backup and veneer which is then bridged with an anchor rod. The Grip-Tie anchor creates formidable gripping strength to the base material to which it is attached. The anchor does not draw walls together, thereby eliminating additional tension stresses between wythes of material. The backup material can be concrete, metal stud, wood stud, CMU (hollow or grouted), structural steel, or brick. The veneer can be brick, stone, or precast. The Grip-Tie anchor assembly is manufactured from corrosion-resistant materials which will contribute to the facade's long-term durability and design life. The Grip-Tie anchorage system has been designed to accommodate easy installation via hand tools or power tools. Combining the strength, generous spacing, and affordable installation technique, the Grip-Tie mechanical repair anchor product line is a value-reward choice for facade re-anchoring.

### Grip-Tie Selection Guide

The following application descriptions will provide a quick Grip-Tie Repair Anchor Guideline when determining the appropriate series tie for veneers greater than 3" thick:

- Solid backup conditions – refer to the 5000 or 5000R Series Anchors
- Hollow backup conditions – refer to the 5100 Series Anchors
- Structural steel backup conditions – refer to the 5200 Series Anchors
- Stud (wood or steel) backup conditions – refer to the 5300 Series Anchors

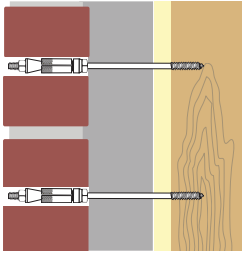
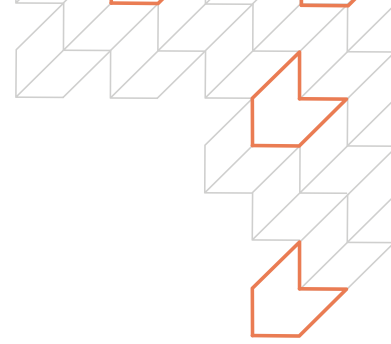
### Anchor Spacing

It is recommended to first check with local building codes for spacing condition requirements for proper masonry tie spacing. Typically, the Grip-Tie is spaced at one tie per four square feet of veneer for masonry or concrete backup conditions. For metal or wood stud backup, a 16" horizontal by 24" vertical is common spacing. Consult with local design professionals to establish wind load criteria for all scenarios.

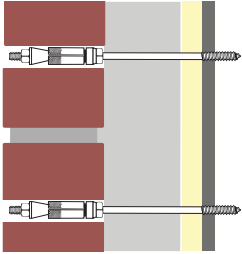
### Performance

Each construction site is unique and the appropriate use of this product is the responsibility of the engineers, architects, and other professionals who are familiar with the specific requirements of the project. The data reflects results of lab, field and in-house tests and are provided as a guideline for the designer. Site testing is encouraged for verification of load capacity.

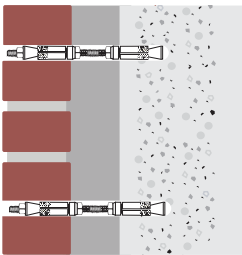
# GRIP-TIE APPLICATIONS



Re-anchoring brick facade to wood stud backup

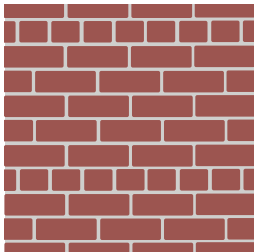


Re-anchoring brick facade to metal stud backup



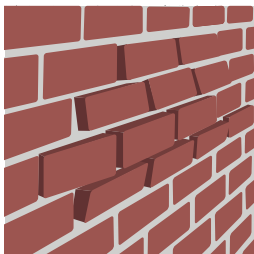
## Brick veneer cavity walls with

- Insufficient or corroded ties
- Concrete or metal stud backup
- Wind-load fortification

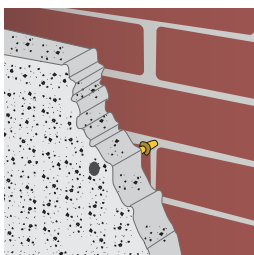


## Composite walls where header brick has failed

- Soft brick or mortar
- Deep-reaching multi-wythe connections



Peripheral areas around bulges in walls or areas to be removed









## Non-brick facades such as







- Limestone
- Granite
- Precast

# TENSION CAPACITIES WITH VARIOUS BACKUP MATERIAL

## Backup Material Ultimate Tension Capacity (lbs)

METAL STUD				WOOD				Anchor Series		Backup	
16 Gauge	18 Gauge	2 x 4	4 x 4	1/2" Plywood	7/16" OSB	1" Sheathing					
835	500	900	1200	475	320	800				OR STEEL	WOOD
							5300R SERIES				
835	500	900	1200	475	320	800				OR STEEL	WOOD
							5300 SERIES				
LIGHTWEIGHT CMU	NORMAL WEIGHT CMU	CONCRETE	SOLID BRICK	CLAY TILE	STRUCTURAL STEEL	GROUTED CMU	SOFT BRICK	CINDER BLOCK	Typical Grip-Tie Shaft Properties		
									Ultimate Shaft Buckling Strength		
								SHAFT LENGTH (in)		CAPACITY (lb)	
								5 1/2		1620	
								6 1/2		1425	
								9 1/2		1100	
								11 1/2		725	
Ultimate Tension Capacity (lbs)											
N/R	N/R	2000	1200	N/R	N/R	1200	800	N/R		SOLID MATERIAL	3/8" DRILL DIAMETER
							5000R SERIES				
N/R	N/R	2300	1500	N/R	N/R	1600	1300	N/R		SOLID MATERIAL	1/2" DRILL DIAMETER
							5000 SERIES				
1000	1100	1500	1200	700	2000 > 5/16"	1100	800	500		CMU	3/8" DRILL DIAMETER
							5100 SERIES				
N/R	N/R	N/R	N/R	750	2000 < 5/16"	N/R	N/R	N/R		TILE	3/8" DRILL DIAMETER FOR TILE
							5200 SERIES			OR STEEL	7/16" DRILL DIAMETER FOR STEEL

# TENSION/COMPRESSION CAPACITIES WITH VARIOUS VENEERS

Anchor Series		Veneer Material Ultimate Tension Capacity (lbs)											
		MORTAR JOINT		BRICK		PRECAST		LIMESTONE		GRANITE			
		Soft	Hard	Soft	Hard								
VENEER		TENSION	COMPRESSION	TENSION	COMPRESSION	TENSION	COMPRESSION	TENSION	COMPRESSION	TENSION	COMPRESSION	TENSION	COMPRESSION
← TENSION	SET BACK 3/8" ~ 5/8"	→ COMPRESSION											
3/8"		900	800	1600	800	1200	1500	1500	1500	1500	1500	1500	1200
Hole Site		5300R SERIES											
9/16"				1600	1300	1500	1500	1700	1700	2000	1500	2000	1500
Hole Site		5300 SERIES											
3/8"		900	800	1600	800	1200	1500	1500	1500	1500	1500	1500	1200
Hole Site		5000R SERIES											
1/2"		900	800	1600	1300	1500	1500	1700	1700	2000	1500	2000	1200
Hole Site		5000 SERIES											
1/2"		900	800	1600	1300	1500	1500	1700	1700	2000	1500	2000	1200
Hole Site		5100 SERIES											
1/2"		900	800	1600	1300	1500	1500	1700	1700	2000	1500	2000	1200
Hole Site		5200 SERIES											



## KELLY

### Field Support

Our on-site service includes troubleshooting, training and installation support.



## STEVE

### Engineering Support

Engineering details and personalized solutions for your specific needs.





# You. Us. The project.

We strive to provide the best construction products on the market, but we also know this business is about people. That's why we dedicate our human resources and services to make your job easier. Our nationwide network of sales representatives is here to do whatever we can to help solve your job-site problems.

**COLLEEN**  
Customer Care

We're real live people who answer the phones!  
Really. We're here M-F, 8a-5p, CST.

**BRIAN**  
Field Support

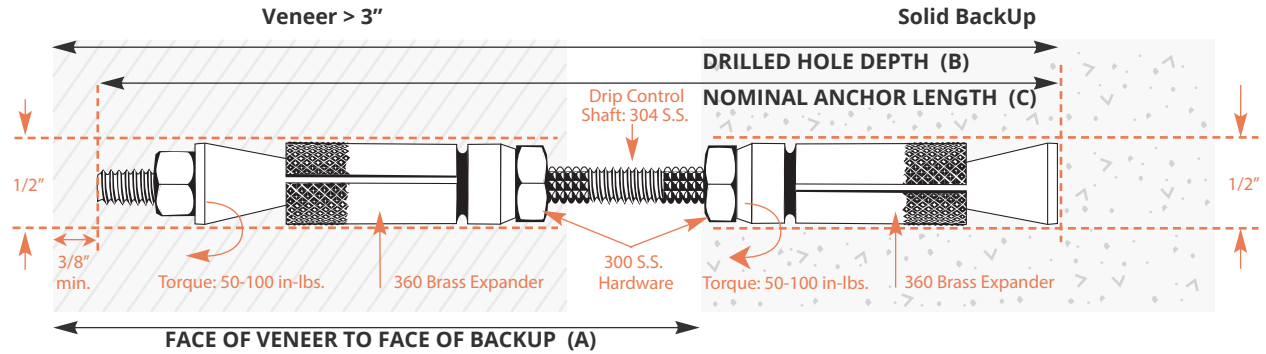
We come to you to support your projects  
when and where you need us.



# INSTALLATION

## 5000 SERIES ANCHOR

Installation procedure and criteria for solid backup



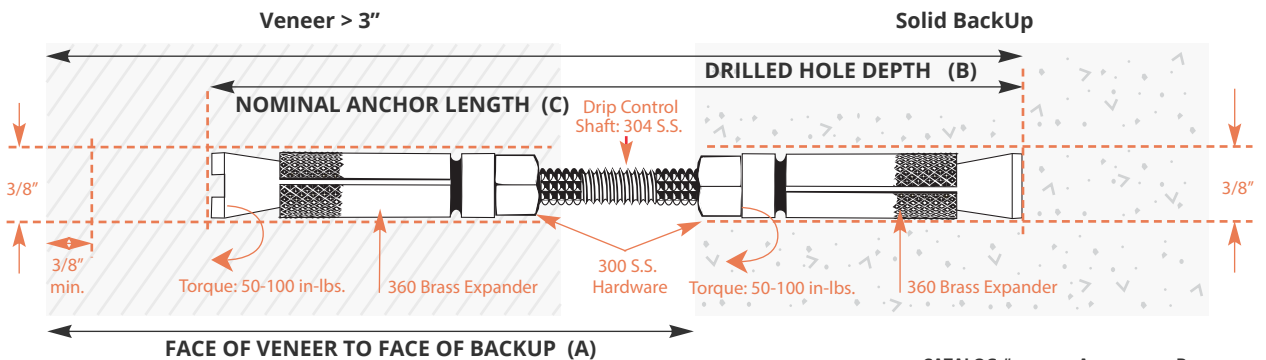
1. Select proper anchor length based on face of veneer to face of backup (dimension A).
2. Drill appropriate hole at "TEE" joint location (no impact) to depth "B".
3. Blow out drill fines.
4. Assemble threaded portion of complete anchor assembly to the Grip-Tie 501 Setting Tool.  
(Hex bolt on tool MUST be seated) thread shaft into tool until it stops.
5. Insert entire assembly into drilled hole until it bottoms, tighten 50 – 100 in-lbs, remove setting tool.  
(Loosen bolt head on tool while holding tool firmly, spin tool from anchor).
6. Slide socket and adaptor onto the square drive of the 501 Tool, and onto the 5/16 hex nut of the installed anchor, tighten 50-100 in-lbs.
7. Remove socket and plug hole.

Catalog #	A	B	C
62200-550	4 – 5"	6	5 1/2"
62200-650	4 – 6"	7	6 1/2"
62200-750	4 – 7"	8	7 1/2"
62200-850	4 – 8"	9	8 1/2"

Other lengths available upon request

## 5000R SERIES ANCHOR

Installation procedure and criteria for solid backup



1. Select proper anchor length based on face of veneer to face of back-up (dimension A).
2. Drill appropriate hole through mortar joint (no impact) to depth illustrated (C).
3. Blow out drill fines.
4. Fit threaded shaft, with expander assembly opposite, to the 501R setting tool. (Hex bolt on tool MUST be seated) thread shaft into tool until it stops; Insert assembly into drilled hole until it bottoms; Tighten 50-100 in-lbs. (Hex bolt on the setting tool MUST be seated), thread shaft into setting tool until it stops; Insert assembly into drilled hole until it bottoms; tighten 50 – 100 in-lbs.
5. Remove tool by holding firmly and loosening the hex bolt, then spin tool off anchor shaft by hand.
6. Place outer brass shield over main body (slots facing outward) and slide over shaft until it stops against nut; Place slot of tapered cone onto the 501R tangs; Position tapered cone onto shaft and tighten 50-100 in-lbs.
7. Remove tool, patch hole.

CATALOG #	A	B	C
62210-550	4 – 6"	6 1/2"	6"
62210-650	4 – 7"	7 1/2"	7"
62210-750	4 – 8"	8 1/2"	8"
62210-850	4 – 9"	9 1/2"	9"

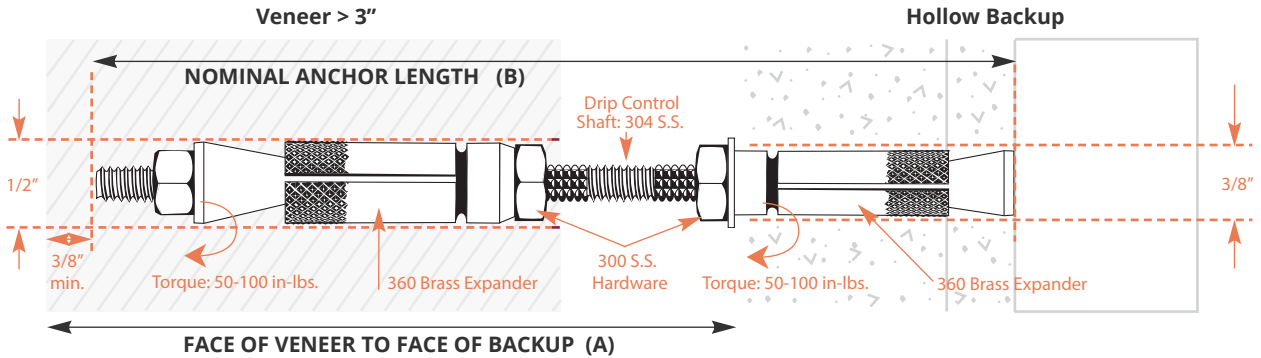
Other lengths available upon request



# INSTALLATION

## 5100 SERIES ANCHOR

Installation procedure and criteria for hollow backup

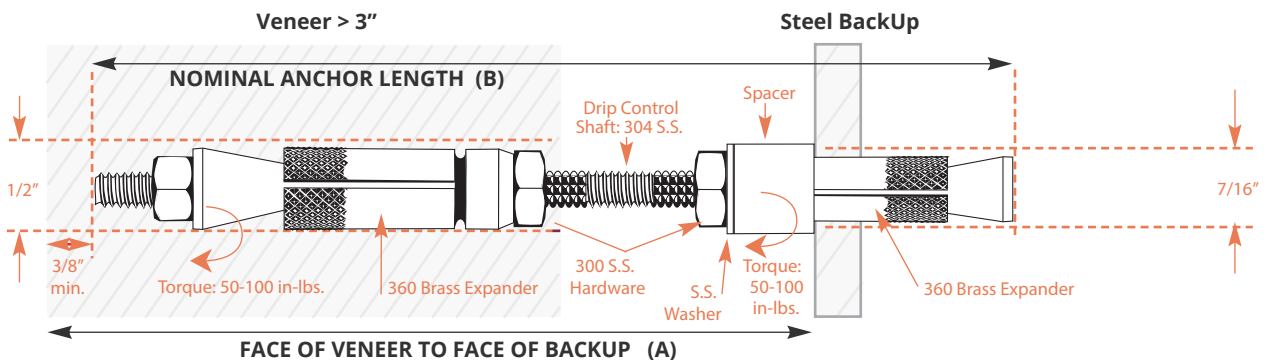


1. Select proper anchor length based on face of veneer to face of backup (dimension A).
2. Drill 1/2" hole through "tee" joint (no impact) and a 3/8" hole in the backup, at least 2" deep.
3. Blow out drill fines.
4. Assemble threaded portion of complete anchor assembly to the Grip-Tie 501 Setting Tool. (Hex bolt on the setting tool MUST be seated), thread shaft into setting tool until it stops; Insert assembly into drilled hole until it bottoms; tighten 50 - 100 in-lbs.
5. Remove tool by holding firmly and loosening the hex bolt, then spin tool off anchor shaft by hand.
6. Slide socket drive and adaptor onto the square drive of the 501 tool and on to the 5/16" nut of the installed anchor, tighten 50 - 100 in-lbs.
7. Remove socket, patch hole.

CATALOG #	A	B
62220-550	4 - 5"	5 1/2"
62220-650	5 - 6"	6 1/2"
62220-750	6 - 7"	7 1/2"
62220-850	7 - 8"	8 1/2"
Other lengths available upon request		

## 5200 SERIES ANCHOR

Installation procedure and criteria for steel backup



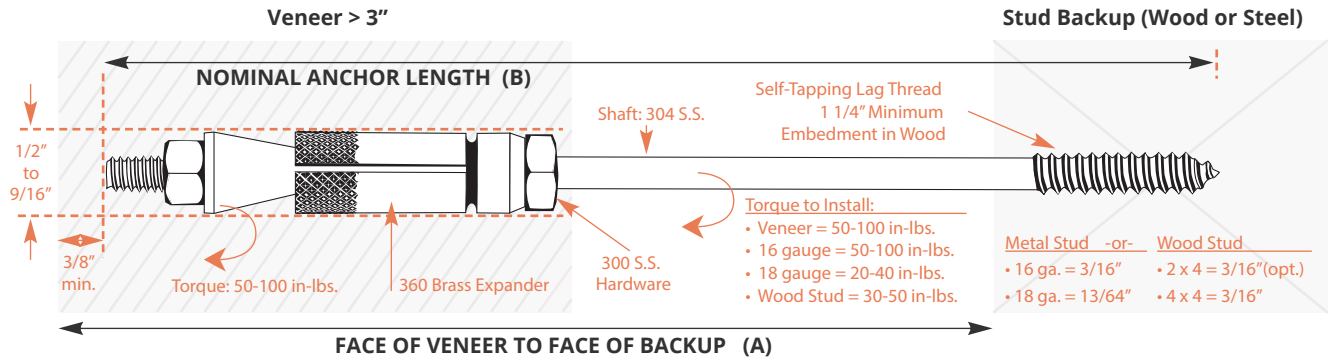
1. Select proper anchor length based on face of veneer to face of backup (dimension A).
2. Drill 1/2" hole through mortar joint (no impact) and a 7/16" hole in the steel backup.
3. Blow out drill fines.
4. Assemble threaded portion of complete anchor assembly to the Grip-Tie 501 Setting Tool. (Hex bolt on the setting tool MUST be seated), thread shaft into setting tool until it stops; Insert assembly into drilled hole until it bottoms; tighten 50 - 100 in-lbs.
5. Remove tool by holding firmly and loosening the hex bolt, then spin tool off anchor shaft by hand.
6. Slide socket drive and adaptor onto the square drive of the 501 tool and on to the 5/16" nut of the installed anchor, tighten 50 - 100 in-lbs.
7. Remove socket, patch hole.

CATALOG #	A	B
62230-550	4 1/2 - 5 1/2"	5 1/2"
62230-650	5 1/2 - 6 1/2"	6 1/2"
62230-750	6 1/2 - 7 1/2"	7 1/2"
62230-850	7 1/2 - 8 1/2"	8 1/2"
Other lengths available upon request		

# INSTALLATION

## 5300 SERIES ANCHOR

## Installation procedure and criteria for stud backup



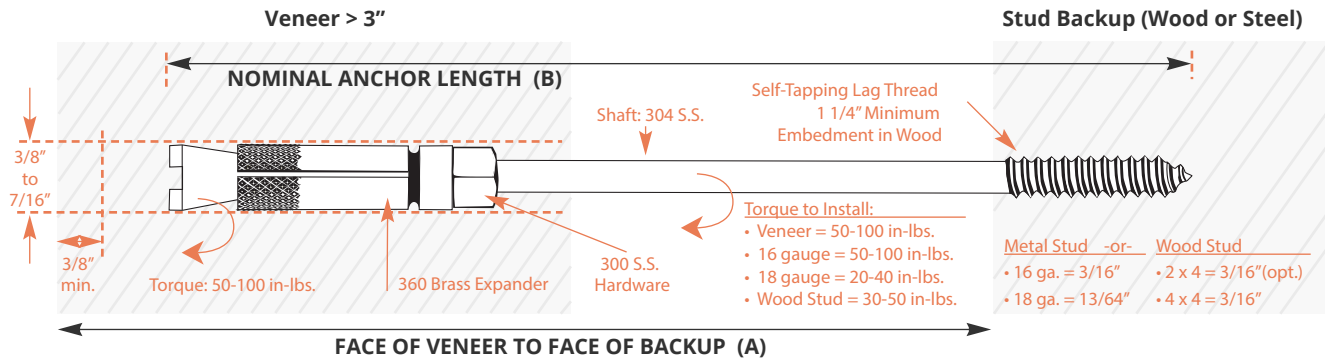
1. Select proper anchor length based on face of veneer to face of backup (dimension A).
2. Drill appropriate hole in mortar joint at stud location using a rotary hammer or hammer drill. Rotary only in soft material.
3. Drill 9/16" hole through outer wythe of material.
  - For metal stud, a 5/32" pilot hole is needed for 18, 20 and 22 gauge stud, a pilot hole of 3/16" for 16 gauge and greater is required.
  - For wood stud backup, a pilot may not be needed, 3/16" if necessary.
4. Blow out excess drill fines.
5. Assemble threaded portion of complete anchor assembly to the setting tool. (Hex bolt on the setting tool must be fully seated) thread anchor shaft into setting tool until it stops.
6. Insert entire assembly into drilled hole until the pointed end of the shaft makes contact with the stud, firmly thread by hand in drilled hole backup.
7. Rotate tool clockwise and tighten backup anchor in metal stud 20 - 50 in-lb. (50 - 100 in-lb. in 16 ga. and wood stud) remove setting tool.
8. To remove setting tool, loosen bolt head while holding setting tool firmly, spin off by hand.
9. Slide socket drive tool over hex segment of setting tool on the hex nut of the anchor and tighten to 50 - 100 in-lb.
10. Remove socket and plug hole.

CATALOG #	A	B
62240-550	4 - 5"	5 1/2"
62240-650	5 - 6"	6 1/2"
62240-750	6 - 7"	7 1/2"
62240-850	7 - 8"	8 1/2"

Other lengths available upon request

## 5300R SERIES ANCHOR

## Installation procedure and criteria for stud backup



1. Select proper anchor length based on face of veneer to face of backup (dimension A).
2. Drill appropriate hole in mortar joint at stud location using a rotary hammer or hammer drill. Rotary only in soft material.
3. Drill 3/8" hole through outer wythe of material.
  - For metal stud, a 5/32" pilot hole is needed for 18, 20 and 22 gauge stud, a pilot hole of 3/16" for 16 gauge and greater is required.
  - For wood stud backup, a pilot may not be needed, 3/16" if necessary.
4. Blow out excess drill fines.
5. Assemble threaded portion of anchor shaft to the Grip-Tie 501R Setting Tool. (Hex bolt on the setting tool must be fully seated) thread anchor shaft into setting tool until it stops.
6. Insert entire assembly into drilled hole until the pointed end of the shaft makes contact with the stud, firmly thread by hand in drilled hole backup.
7. Rotate tool clockwise and tighten backup anchor in metal stud 20 - 50 in-lb. (50 - 100 in-lb. in 16 ga. and wood stud) remove setting tool.
8. To remove setting tool, loosen bolt head while holding setting tool firmly, spin off by hand.
9. Place outer brass shield over main body (slots facing outward) and slide over shaft until it stops against nut. Place slot of tapered cone onto the 501R tangs; Position tapered cone onto shaft and tighten 50-100 in-lbs.
10. Remove tool, patch hole.

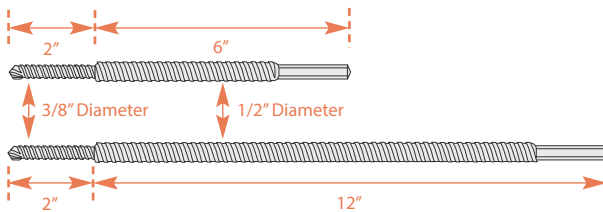
CATALOG #	A	B
62250-450	4 - 5"	4 1/2"
62250-550	5 - 6"	5 1/2"
62250-650	6 - 7"	6 1/2"
62250-750	7 - 8"	7 1/2"
62250-850	8 - 9"	8 1/2"

Other lengths available upon request

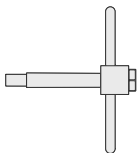
# ACCESSORIES

## SPECIAL DUAL DIAMETER DRILL BITS

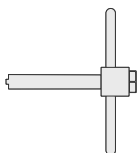
8" and 14" Dual Diameter Drill Bits for 5100 Series



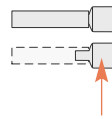
## SETTING TOOLS



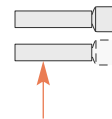
**Grip-Tie 501 Setting Tool**  
For 5000, 5100,  
5100S, and 5300 Series



**Grip-Tie 501R Setting Tool**  
For 5300R



**Grip-Tie Adapter**



**Grip-Tie Deep Well Socket**

## Notes

## Warranty

Seller makes no warranty of any kind, expressed or implied, except that the goods sold under this agreement shall be of the standard quality of the seller, and buyer assumes all risk and liability resulting from the use of the goods, whether used singly or in combination with other goods. Seller neither assumes nor authorizes any person to assume for seller any other liability in conjunction with the sale or use of the goods sold, and there is no oral agreement or warranty collateral to or affecting this transaction.

## Warning

The information contained in this publication does not constitute any professional opinion or judgement and should not be used as a substitute for competent professional determinations. Each construction project is unique and the appropriate use of this product is the responsibility of the engineers, architects, and other professionals who are familiar with the specific requirements of the project.

## Approval

CMS-GT-0719



**PROSOCO**



# You. Us. The project.

PROSOCO's nationwide network of field reps and technical advisers from coast to coast are here to help solve your biggest problems, your smallest problems and everything in between.



**Phone support**  
1-800-255-4255



**Job-site support**  
When and where you need it.



**Training**  
Ensure the job's done right.