

Established in 1961, we are one of North America's leading suppliers of masonry reinforcing and tie systems. Our products have been developed in accordance with accepted building practices and meet or exceed local, regional and national codes and standards. **Blok-Lok** remains committed to setting the standard in the industry. Please call us anytime for technical assistance or recommendations.

combinations of all types. The back up anchorage

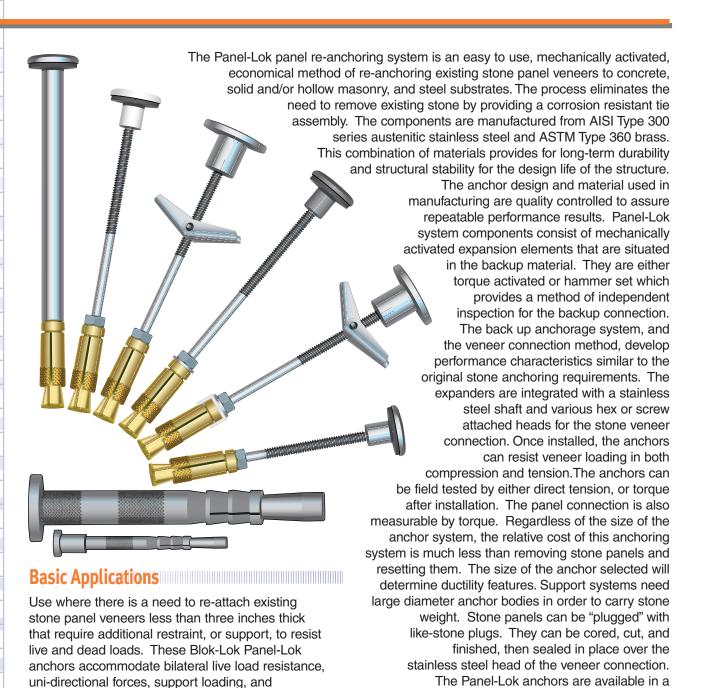
system may dictate the style of anchorage required.

### Mechanical Restraining Anchors for Re-Anchoring Stone Panel Veneers

variety of lengths, and can be manufactured

in special materials and lengths upon request.

# PANEL-LOK



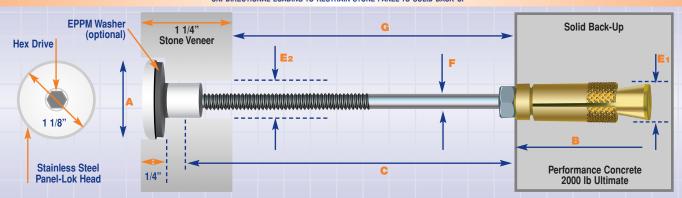
### **PANEL-LOK**

Mechanical Restraining Anchors for Re-Anchoring Stone Panel Veneers



#### 600 SERIES ANCHOR

UNI-DIRECTIONAL LOADING TO RESTRAIN STONE PANEL TO SOLID BACK-UP



	Catalog Part	Facade Countersink Diameter	Minimum Embedment (in.)		Anchor Length (in.)	Back-Up Hole Diameter (in.)	Facade Pilot Hole (in.)	Anchor Diameter (in.)	Air Cavity* (in.) Min-Max
	Number	(in.)	Hollow Block	Solid	C	E <sub>1</sub>	E <sub>2</sub>	F	G
	506034	1 1/4"	1"	2"	1 7/8"	3/8"	1/2"	1/4"	5/8" – 1 1/8"
	506040	1 1/4"	1"	2"	2 7/8"	3/8"	1/2"	1/4"	1 1/8" – 2"
	506044	1 1/4"	1"	2"	3 7/8"	3/8"	1/2"	1/4"	1 5/8" – 2 1/2"
	506054	1 1/4"	1"	2"	4 7/8"	3/8"	1/2"	1/4"	2 5/8" – 3 1/2"
	506064	1 1/4"	1"	2"	5 7/8"	3/8"	1/2"	1/4"	3 5/8" – 4 1/2"

## Installation Procedure and Criteria to Restrain Stone Panel to Solid Back-up

The Blok-Lok 600 Series anchors provide an excellent method of restraining (tension loading) a solid facade <3" thick to various solid backups. The anchor is installed by drilling a standard 1/2" masonry hole through the veneer into the back-up followed by a 1 1/4" countersink hole in the veneer. Anchor placement is only restricted by edge and spacing distance. Anchors are installed with a setting tool, via torque 50-100 in-lb in the back-up. Veneer connections are tightened 1/4 -1/2 turn past hand-tight. Custom lengths available upon request.

### 600-TGL SERIES ANCHOR BI-LATERAL LOADING TO RESTRAIN STONE PANEL TO SOLID BACK-UP

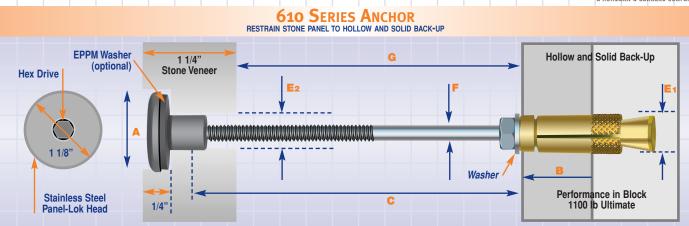


	Catalog Part	Facade Countersink Diameter	Minimum Embedment (in		Anchor Length (in.)	Back-Up Hole Diameter (in.)	Facade Pilot Hole (in.)	Anchor Diameter (in.)	Air Cavity* (in.) Min-Max	
	Number	(in.)	Hollow Block	Solid	C	E1	E <sub>2</sub>	F	G	
	506034 TGL	1 5/8"	1"	2"	1 7/8"	1/2"	3/4"	1/4"	5/8" – 1 1/8"	
-	506040 TGL	1 5/8"	1"	2"	2 7/8"	1/2"	3/4"	1/4"	1 1/8" – 2"	
	506044 TGL	1 5/8"	1"	2"	3 7/8"	1/2"	3/4"	1/4"	1 5/8" – 2 1/2"	
	506054 TGL	1 5/8"	1"	2"	4 7/8"	1/2"	3/4"	1/4"	2 5/8" – 3 1/2"	
	506064 TGL	1 5/8"	1"	2"	5 7/8"	1/2"	3/4"	1/4"	3 5/8" – 4 1/2"	

### Installation Procedure and Criteria to Restrain Stone Panel to Solid Back-up

The Blok-Lok 600-TGL Series anchors provide an excellent method of re-anchoring (tension and compression) a solid facade <3" thick to a solid back-ups. This anchor works especially well when compression loads are a concern. Anchor is installed by drilling a 3/4" hole through veneer, 1/2" in back-up followed by 1 5/8" countersink in the veneer. Anchor placement is only restricted by edge and spacing distance. Anchors are installed with a setting tool, via torque 50-100 in-lb.in the back-up. The veneer torque for the toggle is 25-40 in-lb., and the hex drive head tightened 1/4 -1/2 turn past hand-tight. Custom lengths available upon request

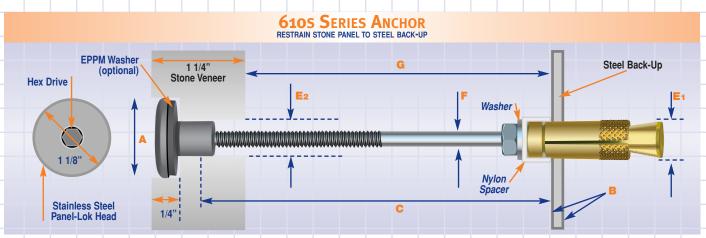




	Catalog Part	Facade Countersink Diameter	sink Embedment (in B		Anchor Length (in.)	Back-Up Hole Diameter (in.)	Facade Pilot Hole (in.)	Anchor Diameter (in.)	Air Cavity* (in.) Min-Max
-	Number	(in.)	Hollow Block	Solid	C	E <sub>1</sub>	E <sub>2</sub>	F	G
_	5060134	1 1/4"	1"	2"	1 7/8"	3/8"	1/2"	1/4"	5/8" – 1 1/8"
	5060140	1 1/4"	1"	2"	2 7/8"	3/8"	1/2"	1/4"	1 1/8" – 2"
_	5060144	1 1/4"	1"	2"	3 7/8"	3/8"	1/2"	1/4"	1 5/8" – 2 1/2"
_	5060154	1 1/4"	1"	2"	4 7/8"	3/8"	1/2"	1/4"	2 5/8" – 3 1/2"
	5060164	1 1/4"	1"	2"	5 7/8"	3/8"	1/2"	1/4"	3 5/8" – 4 1/2"

#### Installation Procedure and Criteria to Restrain Stone Panel to Hollow and Solid Back-up

The Blok-Lok 610 Series anchors provide an excellent method of restraining (tension only) a solid facade <3" thick to various solid or hollow back-ups. A 1/2" veneer hole and 3/8" back-up hole can be easily achieved in one step using a dual diameter bit, followed by a 1 1/4" countersink hole in the veneer. Anchor placement is only restricted by edge and spacing distance. Anchors are installed with a setting tool, via torque 50-100 in-lb in the back-up. Veneer connections should be tightened 1/4-1/2 turns past hand-tight. Custom lengths available upon request.



	Catalog Part Number	Facade Countersink Diameter (in.)	Minimum Steel Thickness (in.)	Illustrated Anchor Length (in.)	Back-Up Hole Diameter (in.)	Facade Pilot Hole (in.)	Anchor Diameter (in.)	Air Cavity* (in.) Min-Max
	5060134S	1 1/4"	3/16"	2 3/16"	7/16"	3/4"	1/4"	1 1/16" – 1 7/8"
I	5060140S	1 1/4"	3/16"	2 11/16"	7/16"	3/4"	1/4"	1 9/16" – 2 1/4"
I	5060144S	1 1/4"	3/16"	3 3/16"	7/16"	3/4"	1/4"	2 1/16" – 2 7/8"
	5060154S	1 1/4"	3/16"	4 3/16"	7/16"	3/4"	1/4"	3 1/16" – 3 7/8"
	5060164S	1 1/4"	3/16"	5 3/16"	7/16"	3/4"	1/4"	4 1/16" – 4 7/8"

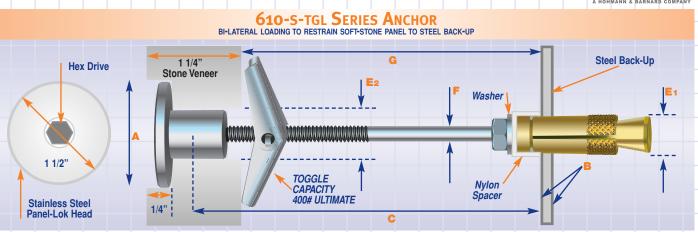
### Installation Procedure and Criteria to Restrain Stone Panel to Steel Back-up

The Blok-Lok 610S Series anchors provide an excellent method of restraining (tension only) a solid facade <3" thick to steel back-ups. A 1/2" veneer hole and 7/16" back-up hole can be easily achieved by using quality masonry and steel drill bits, followed by a 1 1/4" countersink hole in the veneer. Anchor placement is only restricted by edge and spacing distance. Anchors are installed with a setting tool, via torque 50-100 in-lb in the back-up. Veneer connections should be tightened 1/4-1/2 turns past hand-tight. Custom lengths available upon request.



Mechanical Restraining Anchors for Re-Anchoring Stone Panel Veneers

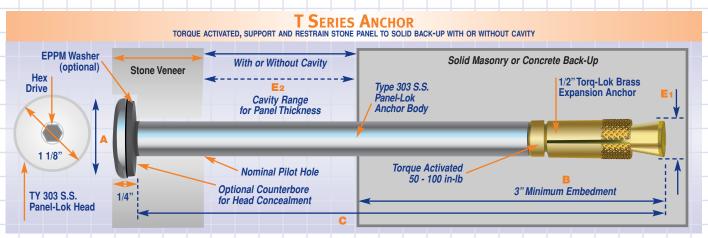




Catalog Part Number	Facade Countersink Diameter (in.)	Minimum Steel Thickness (in.)	Illustrated Anchor Length (in.)	Back-Up Hole Diameter (in.)	Facade Pilot Hole (in.)	Anchor Diameter (in.)	Air Cavity* (in.) Min-Max G
506134 STGL	1 5/8"	3/16"	2 3/16"	7/16"	3/4"	1/4"	1 1/16" – 1 7/8"
506140 STGL	1 5/8"	3/16"	2 11/16"	7/16"	3/4"	1/4"	1 9/16" – 2 1/4"
506144 STGL	1 5/8"	3/16"	3 3/16"	7/16"	3/4"	1/4"	2 1/16" – 2 7/8"
506154 STGL	1 5/8"	3/16"	4 3/16"	7/16"	3/4"	1/4"	3 1/16" – 3 7/8"
506164 STGL	1 5/8"	3/16"	5 3/16"	7/16"	3/4"	1/4"	4 1/16" – 4 7/8"

## Installation Procedure and Criteria to Restrain Stone Panel to Steel Back-up

The Blok-Lok 610S-TGL Series anchors provide an excellent method of re-anchoring (tension and compression) a stone facade <3" thick to steel back-ups. This anchor works especially well when compression loads are a concern. Anchor is installed by drilling a 3/4" hole through veneer, 7/16" in back-up followed by 1 5/8" countersink in the veneer. Anchor placement is only restricted by edge and spacing distance. Anchors are installed with a setting tool, via torque 50-100 in-lb in the back-up. The veneer torque for the toggle is 25-40 in-lb, and the hex drive head tightened 1/4-1/2 turn past hand-tight. Custom lengths available upon request.



	Catalog Part Number  Back-Up Hole and Pilot Diameter: E1  3/8" DIA.   1/2" DIA.		Facade Countersink Diameter (in.)	Minimum Embedment (in.)	Anchor Length (in.)	for Pa	vity Ran nel Thick E2	iness:	1/2" DIA. Ultimate Bending Load (lb.) per Anchor	C A V I T Y	3/8" DIA. Ultimate Bending Load (lb.) per Anchor
I	596647	596547	1 1/4"	3"	4 7/8"	0-1 1/2"	0-1"	0 - 1/4"	680	1"	280
İ	596657	596557	1 1/4"	3"	5 7/8"	0-2 1/2"	0-2"	0-1 1/4"	340	2"	140
Ì	596667	596567	1 1/4"	3"	6 7/8"	0-3 1/2"	0-3"	0-2 1/4"	230	3"	100
ı				-					170	4"	70
	596677	596577	1 1/4"	3"	7 7/8"	0-4 1/2"	0-4"	0-3 1/4"	140	5"	60
-		Ult		110	6"	50					
$\left  \right $				100	7"	40					

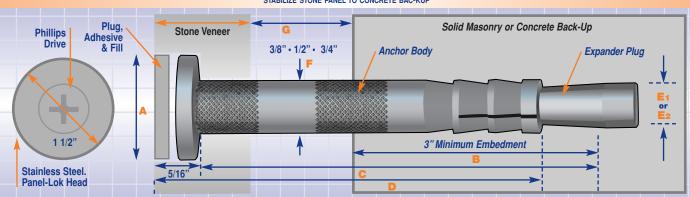
## Installation Procedure and Criteria to Restrain Stone Panel to Solid Back-up

The Blok-Lok T Series anchors provide an excellent method of re-anchoring (tension and bending) a solid facade <3" thick to various solid back-ups. Anchor is installed by drilling an appropriate hole through veneer, and in back-up followed by 1 1/4" countersink in the veneer. Anchor placement is only restricted by edge and spacing distance. Anchors are installed with a setting tool, via torque 50-100 in-lb in the back-up. Veneer connections should be tightened 1/4-1/2 turns past hand-tight. Custom lengths available upon request.

#### Mechanical Restraining Anchors for Re-Anchoring Stone Panel Veneers



### H SERIES ANCHOR (3/8" • 1/2" • 3/4" DIAMETER) STABILIZE STONE PANEL TO CONCRETE BAC-KUP



Catalog Part Number	Facade Countersink Diameter (in.)	Minimum Embedment in Concrete (in.)	Anchor Length (in.)	Minimum Overall Hole Depth (in.)	Concrete Hole Diameter w/o Adhesive (in.)	Concrete Hole Diameter with Adhesive (in.)	Anchor Diameter (in.)	Air Cavity Min-Max (in.) for 1 1/2" Panel
503801	1 5/8"	3"	5 5/8"	6 3/8"	3/8"	7/16"	3/8"	0 – 1 5/8"
503802	1 5/8"	3"	6 5/8"	7 3/8"	3/8"	7/16"	3/8"	0 – 2 5/8"
501201	1 5/8"	3"	5 5/8"	6 3/8"	1/2"	9/16"	1/2"	0 – 1 1/8"
501202	1 5/8"	3"	6 5/8"	7 3/8"	1/2"	9/16"	1/2"	0 – 2 5/8"
503400	1 5/8"	3"	4 5/8"	5 3/8"	3/4"	11/16"	3/4"	0 – 5/8"
503401	1 5/8"	3"	5 5/8"	6 3/8"	3/4"	13/16"	3/4"	0 – 1 5/8"
503402	1 1/2"	3"	6 5/8"	7 3/8"	3/4"	13/16"	3/4"	0 – 2 5/8"

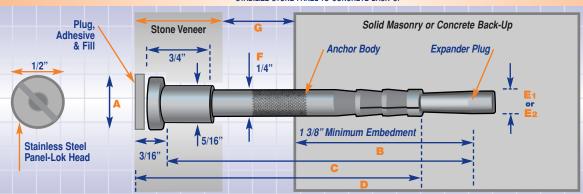
Note: Minimum panel thickness equals 1 1/8" allowable. Minimum concrete cover at anchor bottom = 3.5 x F.

Other anchor lengths are available on request.

# Panel-Lok Gravity Anchor (3/8" • 1/2" • 3/4" diameter)

	Ultim	Ultimate Capacity per Diameter									
Cavity	Bend	ing Load	Tension @ Min. Embed.								
	3/8"	1/2"	3/4"	& 3500 PSI							
1"	280	680	2300	3/8" =							
2"	140	340	1100	3200							
3"	100	230	760	1/2" =							
4"	70	170	600	7100							
5"	60	140	500	7100							
6"	50	110	380	3/4" =							
7"	40	100	325	7500							

#### H SERIES ANCHOR (1/4" DIAMETER) STABILIZE STONE PANEL TO CONCRETE BACK-UP



Catalog Part Number	Facade Countersink Diameter (in.)	Minimum Embedment in Concrete (in.)	Anchor Length (in.)	Minimum Overall Hole Depth (in.)	Concrete Hole Diameter w/o Adhesive (in.)	Concrete Hole Diameter with Adhesive (in.)	Anchor Diameter (in.)	Air Cavity Min-Max (in.) for 1 1/2" Panel G
501401	5/8"	1 3/8"	3 3/8"	3 3/4"	1/4"	5/16"	1/4"	0 – 1"
501402	5/8"	1 3/8"	4 3/8"	4 3/4"	1/4"	5/16"	1/4"	0 – 2"
501403	5/8"	1 3/8"	5 3/8"	5 3/4"	1/4"	5/16"	1/4"	0 – 1"

#### Note:

Head can be surface mounted or recessed in a 3/16" deep counterbore.

Minimum concrete cover at anchor bottom = 3.5 x F. Other anchor lengths are available on request.

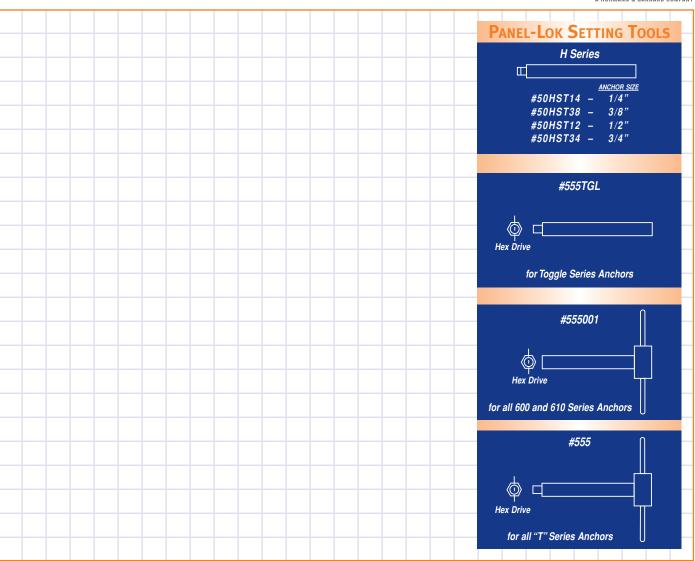
# Panel-Lok Gravity Anchor (1/4" diameter)

The Blok-Lok H Series anchors provide an excellent method of restraining (tension only) and supporting a solid facade <3" thick to various solid back-ups. The anchor is installed by drilling appropriate hole size (anchor diameter) through the veneer into the back-up, followed by appropriate countersink hole for panel tie head. Drilled hole must have drill dust blown out prior to anchor insertion. A setting tool is attached to the anchor and then hammered to expand into the back-up. A screw-on panel tie head to ensure positive connection between facade and back-up. Anchor available in custom lengths.



#### Mechanical Restraining Anchors for Re-Anchoring Stone Panel Veneers





#### 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.

Approval	

#### 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.



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