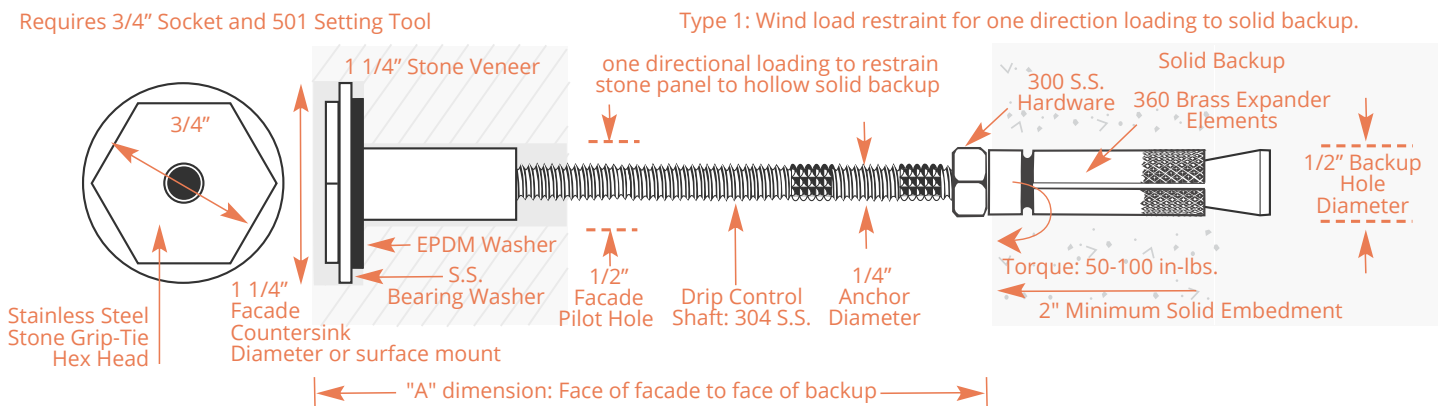


TYPE 1 ANCHORS

WIND RESTRAINT; ONE DIRECTION STONE WIND LOAD

6000-1 Series Anchor



1. Locate anchor placement per specified location.
2. Drill 1/2" diameter hole through the stone with a suitable "stone-drilling" drill bit, without percussion.
3. Using a suitable 1/2" diameter quality carbide, drill a 1/2" hole into the solid backup, on center with the 1/2" facade hole, 2" deeper than the "A" dimension as measured from the face of the stone. Blow out drill fines.
4. For a counter sink finish, on center with the 1/2" drilled hole, drill a counter-bore 1-1/8" minimum diameter hole into the stone facade 3/8" - 1/2" deep from the face of the stone on center with the previous drilled holes.
5. Assemble anchor shaft without head to the Grip-Tie 501 Setting Tool; slide assembly through the drilled holes until the expansion anchor bottoms in the concrete drilled hole; tighten by turning clockwise until 50-100 in-lbs of torque is reached; remove setting tool.
6. Attach Stone Grip Hex-Tie Head and washer with EPDM washer to the anchor shaft using an appropriate hex socket, hand-tighten clockwise until the washer and head bottom out into the counter-bore, tighten 20 - 25 in-lbs; remove tool.
7. Installation complete, patch or conceal anchorage per specification requirements.

CATALOG #	ANCHOR SHAFT LENGTH	A
62300-112N350	3.5"	1-5/8" - 2-7/8"
62300-112N400	4"	2-1/8" - 3-3/8"
62300-112N450	4.5"	2-5/8" - 3-7/8"
62300-112N550	5.5"	3-5/8" - 4-7/8"
62300-112N650	6.5"	4-5/8" - 5-7/8"

other lengths available upon request

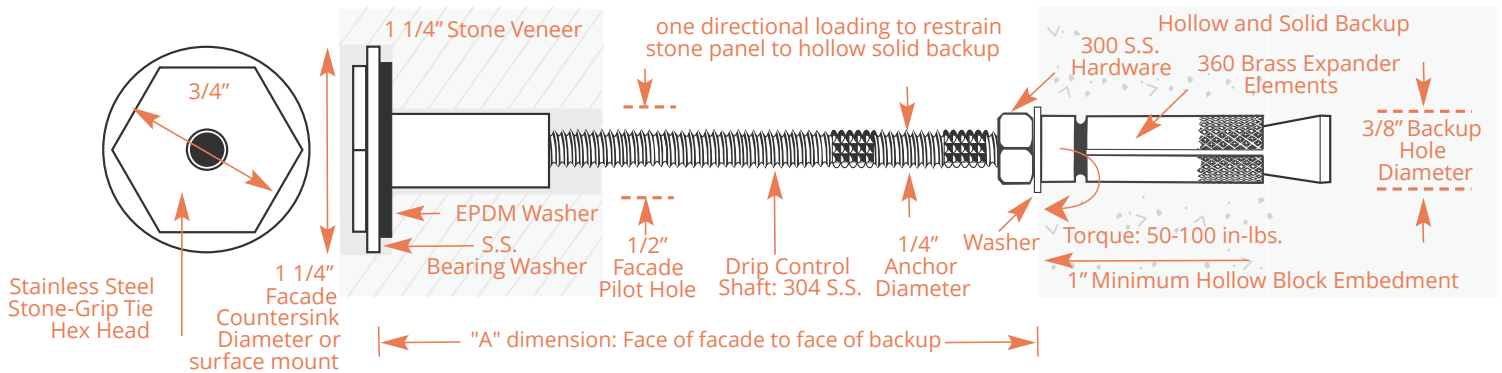
TYPE 1 ANCHORS

WIND RESTRAINT; ONE DIRECTION STONE WIND LOAD

6100-1 Series Anchor

Type 1: Wind load restraint for one direction loading to hollow and solid back-up.

Requires 3/4" Socket and Grip-Tie 501 Setting Tool



1. Locate anchor placement per specified location.
2. Drill 1/2" diameter hole thru the stone with a suitable "stone drilling" drill bit, without percussion.
3. Using a suitable 3/8" diameter quality drill bit, drill a 3/8" hole into the hollow backup, on center with the 1/2" facade hole.
4. For a counter sink finish, on center with the 1/2" drilled hole, drill a counter-bore 1-1/8" minimum diameter hole into the stone facade 3/8" - 1/2" deep from the face of the stone on center with the previous drilled holes.
5. Assemble anchor shaft without head to the Grip-Tie 501 Setting Tool; slide assembly through the drilled holes until the expansion anchor bottoms to the face of hollow backup; tighten by turning clockwise until 50-100 in-lbs of torque is reached; remove setting tool.
6. Attach Stone Grip-Tie Hex Head and washer with EPDM washer to the anchor shaft using an appropriate hex socket, hand-tighten clockwise until the washer and head bottom out into the counter-bore, tighten 20 - 25 in-lbs; remove tool.
7. Installation complete, patch or conceal anchorage per specification requirements.

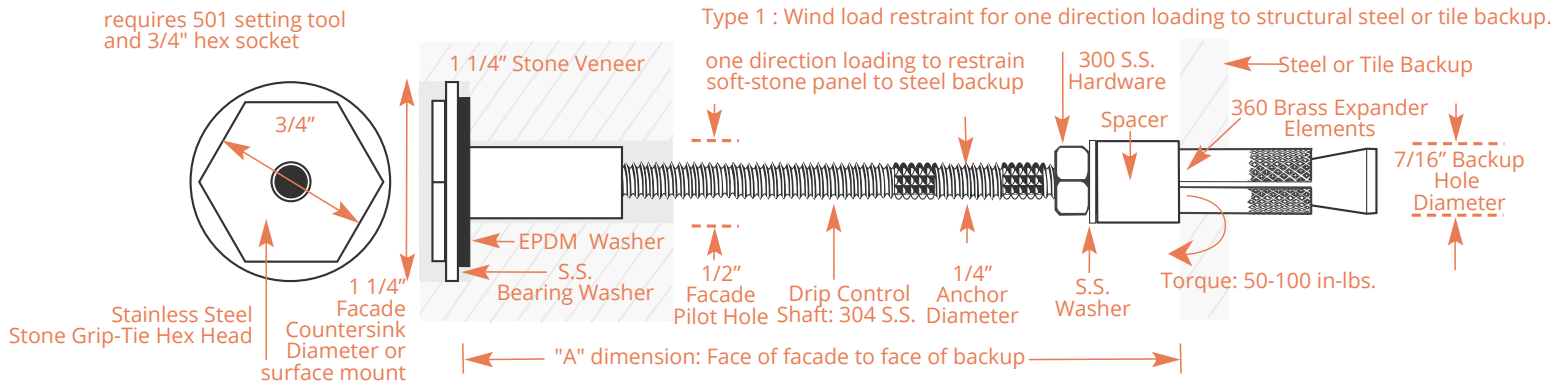
CATALOG #	ANCHOR SHAFT LENGTH	A
62315-150N350	3.5"	1-7/8" - 3"
62315-150N400	4"	2-3/8" - 3-1/2"
62315-150N450	4.5"	2-7/8" - 4"
62315-150N550	5.5"	3-7/8" - 5"
62315-150N650	6.5"	4-7/8" - 6"

other lengths available upon request

TYPE 1 ANCHORS

WIND RESTRAINT; ONE DIRECTION STONE WIND LOAD

6200-1 Series Anchor



1. Locate anchor placement per specified location.
2. Drill 1/2\" diameter hole through the stone with a suitable \"stone drilling\" drill bit, without percussion.
3. Using a suitable 7/16\" diameter quality drill bit, drill a 7/16\" hole into the steel backup, on center with the 1/2\" facade hole.
4. For a counter sink finish, on center with the 1/2\" drilled hole, drill a counter-bore 1-1/8\" minimum diameter hole into the stone facade 3/8\" - 1/2\" deep from the face of the stone on center with the previous drilled holes.
5. Assemble anchor shaft without head to the Grip-Tie 501 Setting Tool; slide assembly with the nylon spacer through the drilled holes until the expansion anchor bottoms to the backup; tighten by turning clockwise until 50-100 in-lbs of torque is reached; remove setting tool.
6. Attach Stone-Grip Hex Tie Head and washer with EPDM washer to the anchor shaft using an appropriate hex socket, hand-tighten clockwise until the washer and head bottom out into the counter-bore, tighten 20 - 25 in-lbs; remove tool.
7. Installation complete, patch or conceal anchorage per specification requirements.

CATALOG #	ANCHOR SHAFT LENGTH	A
62330-112N350	3.5\"	2-1/4\" - 3-3/8\"
62330-112N400	4\"	2-3/4\" - 3-7/8\"
62330-112N450	4.5\"	3-1/4\" - 4-3/8\"
62330-112N550	5.5\"	4-1/4\" - 5-3/8\"
62330-112N650	6.5\"	5-1/4\" - 6-3/8\"

other lengths available upon request

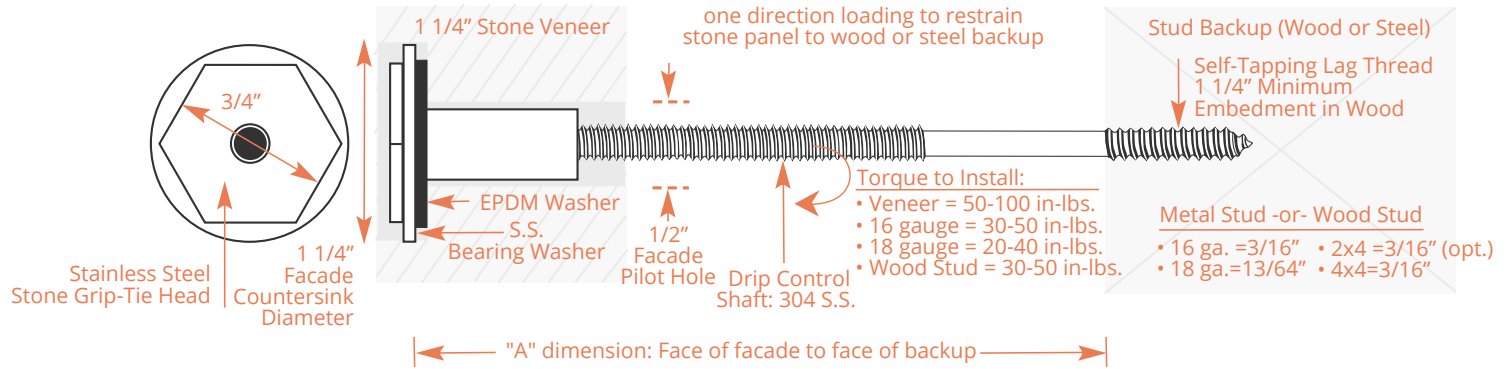
TYPE 1 ANCHORS

WIND RESTRAINT; ONE DIRECTION STONE WIND LOAD

6300-1 Series Anchor

Requires 3/4" Socket and Grip-Tie 501 Setting Tool

Type 1 : Wind load restraint for uni-directional loading to wood or steel stud backup.



1. Locate anchor placement per specified location.
2. Drill 1/2" diameter hole through the stone with a suitable "stone drilling" drill bit, without percussion.
3. Using a suitable twist drill per the diameter illustrated drill a pilot hole into the backup, on center with the 1/2" facade hole.
4. For a counter sink finish, on center with the 1/2" drilled hole, drill a counter-bore 1-1/8" minimum diameter hole into the stone facade 3/8" - 1/2" deep from the face of the stone on center with the previous drilled holes.
5. Assemble anchor shaft without head to the Grip-Tie 501 Setting Tool; slide assembly through the drilled holes until the shaft bottoms in the backup stud or reaches the minimum embedment in wood.; tighten to desired torque; remove setting tool.
6. Attach Stone Grip-Tie Hex Head and washer with EPDM washer to the anchor shaft using an appropriate hex socket, hand-tighten clockwise until the washer and head bottom out into the counter-bore, tighten 20 - 25 in-lbs; remove tool.
7. Installation complete, patch or conceal anchorage per specification requirements.

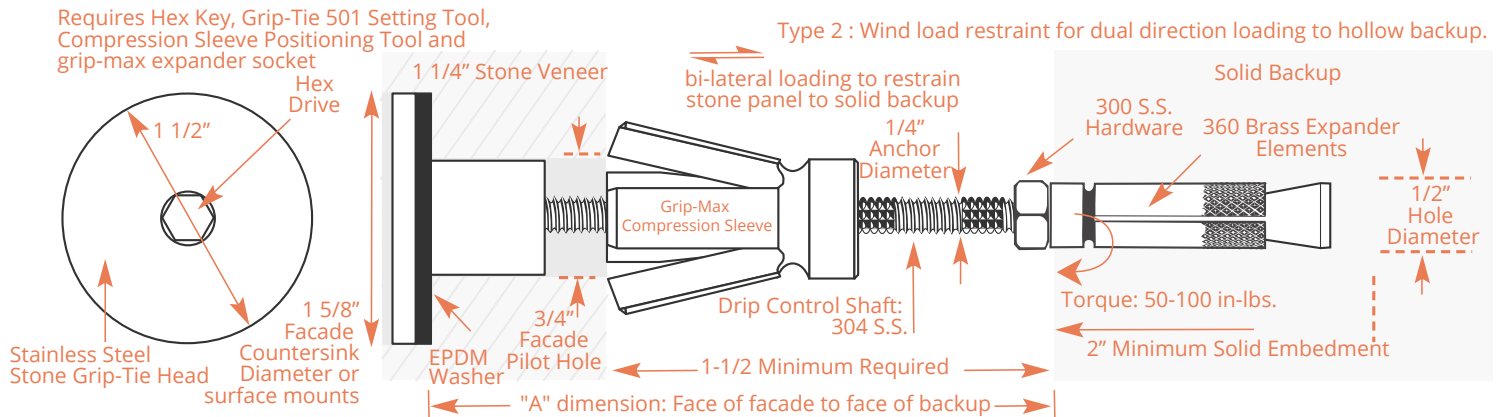
CATALOG #	ANCHOR SHAFT LENGTH	A
62330-112N350	3.5"	2-1/4" - 3-1/2"
62330-112N400	4"	2-3/4" - 4"
62330-112N450	4.5"	3-1/4" - 4-1/2"

other lengths available upon request

TYPE 2 ANCHORS

WIND RESTRAINT; DUAL DIRECTION STONE WIND LOAD

6000-2 [w/ Grip-Max] & 2LD [w/ SS Toggle] Series Anchor



1. Locate anchor placement per specified location.
2. Drill 3/4" diameter hole through the stone with a suitable "stone drilling" drill bit, without percussion.
3. Using a suitable 1/2" diameter quality carbide, drill a 1/2" hole into the solid backup, on center with the 3/4" facade hole, 2" deeper than the max "A" dimension as measured from the face of the stone. Blow out drill fines.
4. For a counter sink finish, counter-bore a 1-1/2" – 1-5/8" hole into the stone facade 3/8" – 1/2" deep from the face of the stone on center with the previous drilled holes.
5. Assemble anchor shaft with the Grip-Max compression sleeve or SS Toggle (located approximately 1" – 2" from the anchor shaft end) to the Grip-Tie 501 Setting Tool; slide assembly through the drilled holes until the expansion anchor bottoms in the concrete drilled hole; tighten by turning clockwise until 50 – 100 in-lbs of torque is reached; remove setting tool.
6. When using the Grip-Max Compression Sleeve: Activate the Grip-Max using the Grip-Max Expansion Socket, expand the compression sleeve by engaging the Grip-Max Socket to the brass hex expander cone and expand the sleeve by turning the cone 6-10 turns. Remove socket
- 6a. For the Grip-Max: Using the twin tang "Compression Sleeve" positioning tool, slide prong of tool into the slot of the expanded sleeve until contact is made. Rotate counter-clockwise the assembly until contact is made to the back of the stone veneer plus 1/4 turn; remove the positioning tool.
7. For the toggle: Using the toggle positioning tool, slide tool into the channel section of sprung-open toggle until contact is made. Rotate toggle counter-clockwise until contact is made to the back of the stone veneer plus 1/4 turn; remove the positioning tool.
8. Attach Stone-Grip head with EPDM washer to the anchor shaft using the 'T' handle hex wrench, rotate clockwise until the washer and head bottom out into the counter-bore, tighten 20 – 25 in-lbs; remove tool.
9. Installation complete, patch or conceal anchorage per specification requirements.

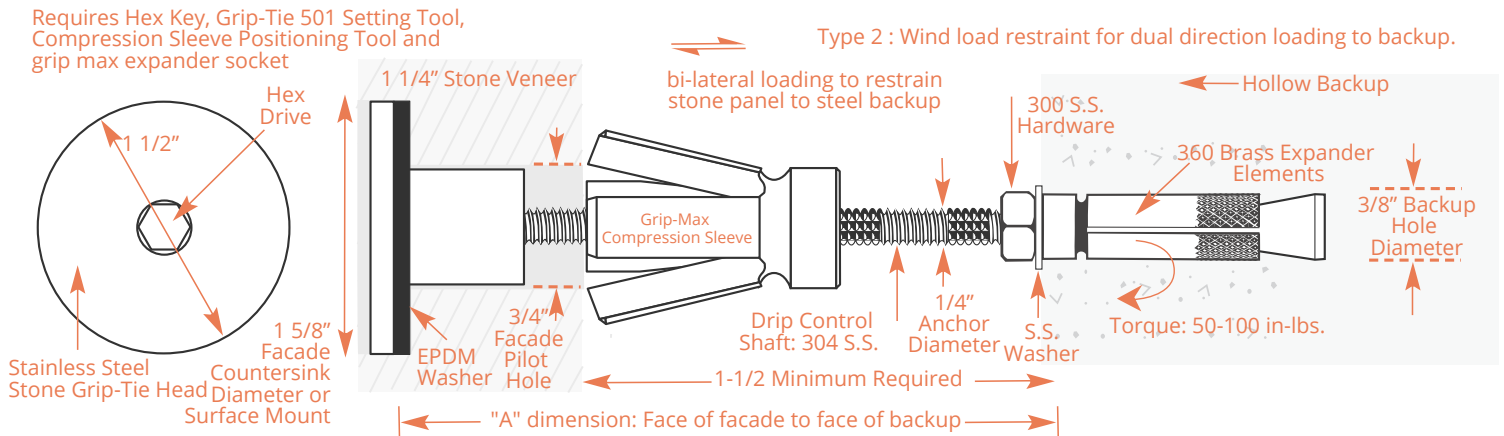
CATALOG #		ANCHOR SHAFT LENGTH	A
Grip-Max	Toggle		
62305-112N450	62310-150N450	4.5"	3" – 4"
62305-112N550	62310-150N550	5.5"	4" – 5"
62305-112N650	62310-150N650	6.5"	5" – 6"
62305-112N750	62310-150N750	7.5"	6" – 7"

other lengths available upon request

TYPE 2 ANCHORS

WIND RESTRAINT; DUAL DIRECTION STONE WIND LOAD

6100-2 (w/ Grip-Max) & 2LD (w/ SS Toggle) Series Anchor



1. Locate anchor placement per specified location.
2. Drill 3/4" diameter hole through the stone with a suitable "stone drilling" drill bit, without percussion.
3. Using a suitable 3/8" diameter quality carbide, drill a 3/8" hole into the hollow backup, on center with the 3/4" facade hole.
4. On center with the 3/4" nominal hole through the stone facade. Counter-bore a 1-1/2" - 1-5/8" diameter hole into the stone facade 3/8" - 1/2" deep from the face of the stone on center with the previous drilled holes.
5. Assemble anchor shaft with the Grip-Max compression sleeve or SS Toggle (located approximately 1" - 2" from the anchor shaft end) to the Grip-Tie 501 setting tool; slide assembly through the drilled holes until the expansion anchor bottoms in the backup drilled hole; tighten by turning clockwise until 50 - 100 in-lbs of torque is reached; remove setting tool.
6. When using the Grip-Max Compression Sleeve: Activate the Grip-Max using the Grip-Max Expansion Socket, expand the compression sleeve by engaging the Grip-Max Socket to the brass hex expander cone and expand the sleeve by turning the cone 6-10 turns. Remove socket
- 6a. For the Grip-Max: Using the twin tang "Compression Sleeve" positioning tool, slide prong of tool into the slot of the expanded sleeve until contact is made. Rotate counter-clockwise the assembly until contact is made to the back of the marble veneer plus 1/4 turn; remove the positioning tool.
7. For the toggle: Using the toggle positioning tool, slide tool into the channel section of sprung-open toggle until contact is made. Rotate toggle counter-clockwise until contact is made to the back of the stone veneer plus 1/4 turn; remove the positioning tool.
8. Attach Stone-Grip head with EPDM washer to the anchor shaft using the 'T' handle hex wrench, rotate clockwise until the washer and head bottom out into the counter-bore, tighten 20 - 25 in-lbs; remove tool.
9. Installation complete, patch or conceal anchorage per specification requirements.

CATALOG #		ANCHOR SHAFT LENGTH	A
Grip-Max	Toggle		
62320-112N450	62325-150N450	4.5"	3" - 4"
62320-112N550	62325-150N550	5.5"	4" - 5"
62320-112N650	62325-150N650	6.5"	5" - 6"
62320-112N750	62325-150N750	7.5"	6" - 7"

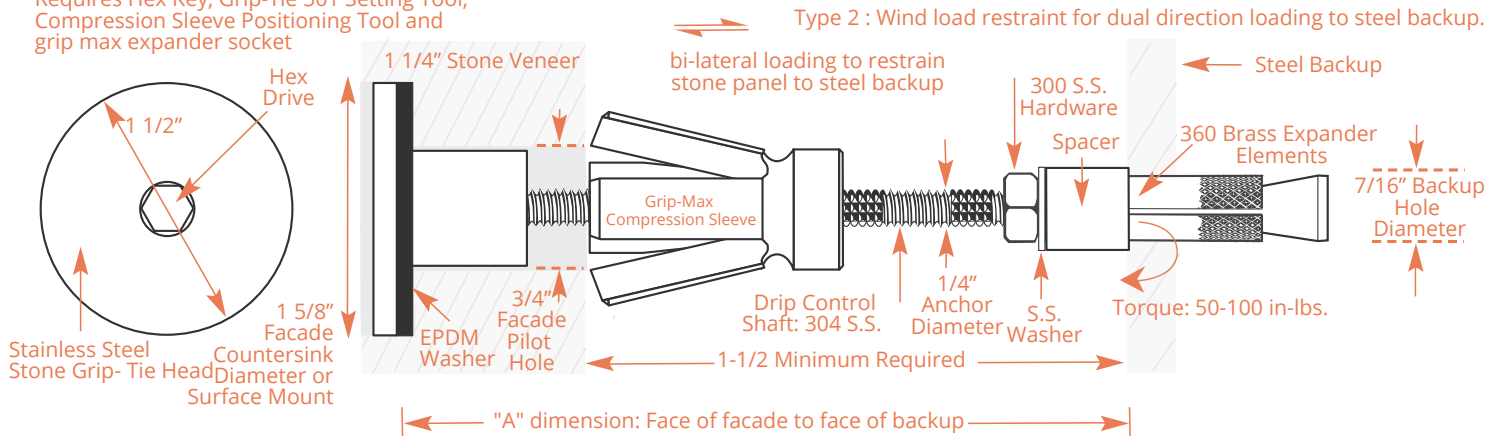
other lengths available upon request

TYPE 2 ANCHORS

WIND RESTRAINT; DUAL DIRECTION STONE WIND LOAD

6200-2 (w/ Grip-Max) & 2LD (w/ SS Toggle) Series Anchor

Requires Hex Key, Grip-Tie 501 Setting Tool, Compression Sleeve Positioning Tool and grip max expander socket



1. Locate anchor placement per specified location.
2. Drill 3/4" diameter hole through the stone with a suitable "stone drilling" drill bit, without percussion.
3. Using a suitable 7/16" diameter quality carbide, drill a 7/16" hole into the steel backup, on center with the 3/4" facade hole.
4. On center with the 3/4" nominal hole through the stone facade. Counter-bore a 1-1/2" – 1-5/8" diameter hole into the stone facade 3/8" – 1/2" deep from the face of the stone on center with the previous drilled holes.
5. Assemble anchor shaft with the Grip-Max compression sleeve or SS Toggle (located approximately 1" – 2" from the anchor shaft end) to the 501 setting tool; slide assembly through the drilled holes until the expansion anchor bottoms in the backup drilled hole; tighten by turning clockwise until 50 – 100 in-lbs of torque is reached; remove setting tool.
6. When using the Grip-Max Compression Sleeve: Activate the Grip-Max using the Grip-Max Expansion Socket, expand the compression sleeve by engaging the Grip-Max Socket to the brass hex expander cone and expand the sleeve by turning the cone 6-10 turns. Remove socket
- 6a. For the Grip-Max: Using the twin tang "Compression Sleeve" positioning tool, slide prong of tool into the slot of the expanded sleeve until contact is made. Rotate counter-clockwise the assembly until contact is made to the back of the marble veneer plus 1/4 turn; remove the positioning tool.
7. For the toggle: Using the toggle positioning tool, slide tool into the channel section of sprung-open toggle until contact is made. Rotate toggle counter-clockwise until contact is made to the back of the stone veneer plus 1/4 turn; remove the positioning tool.
8. Attach Stone-Grip head with EPDM washer to the anchor shaft using the 'T' handle hex wrench, rotate clockwise until the washer and head bottom out into the counter-bore, tighten 20 – 25 in-lbs; remove tool.
9. Installation complete, patch or conceal anchorage per specification requirements.

CATALOG #		ANCHOR SHAFT LENGTH	A
Grip-Max	Toggle		
62335-112N450	62340-150N450	4.5"	3" – 4"
62335-112N550	62340-150N550	5.5"	4" – 5"
62335-112N650	62340-150N650	6.5"	5" – 6"

other lengths available upon request

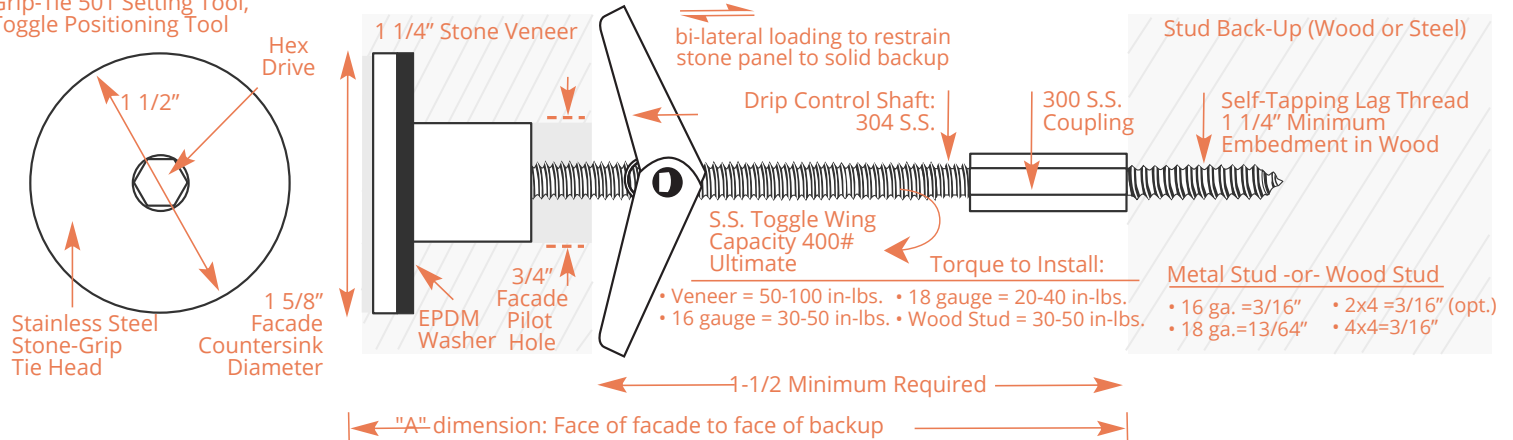
TYPE 2 ANCHORS

WIND RESTRAINT; DUAL DIRECTION STONE LOAD

6300-2LD Series Anchor

Requires Hex Key,
Grip-Tie 501 Setting Tool,
Toggle Positioning Tool

Type 2 : Wind load Type 2LD: Light Duty restraint for bi-lateral loading to wood or steel backup.



1. Locate anchor placement per specified location.
2. Drill 3/4" diameter hole through the stone with a suitable "stone drilling" drill bit, without percussion.
3. Using a suitable twist drill per the diameter illustrated drill a pilot hole into the back-up, on center with the 3/4" facade hole.
4. On center with the 3/4" drilled hole, drill a counter-bore 1-1/2" - 1-5/8" hole into the stone facade 3/8" - 1/2" deep from the face of the stone on center with the previous drilled holes.
5. SS Toggle (located approximately 1" - 2" from the anchor shaft end) to the Grip-Tie 501 Setting Tool; slide assembly through the drilled holes until the shaft bottoms in the back-up drilled hole; tighten by turning clockwise until torque is reached; remove setting tool.
6. For the toggle: Using the toggle positioning tool, slide tool into the channel section of sprung open toggle until contact is made. Rotate toggle counter-clockwise until contact is made to the back of the stone veneer plus 1/4 turn; remove the positioning tool.
7. Attach Stone-Grip head with EPDM washer to the anchor shaft using the 'T' handle hex wrench, rotate clockwise until the washer and head bottom out into the counter-bore, tighten 20 - 25 in-lbs; remove tool.
8. Installation complete, patch or conceal anchorage per specification requirements.

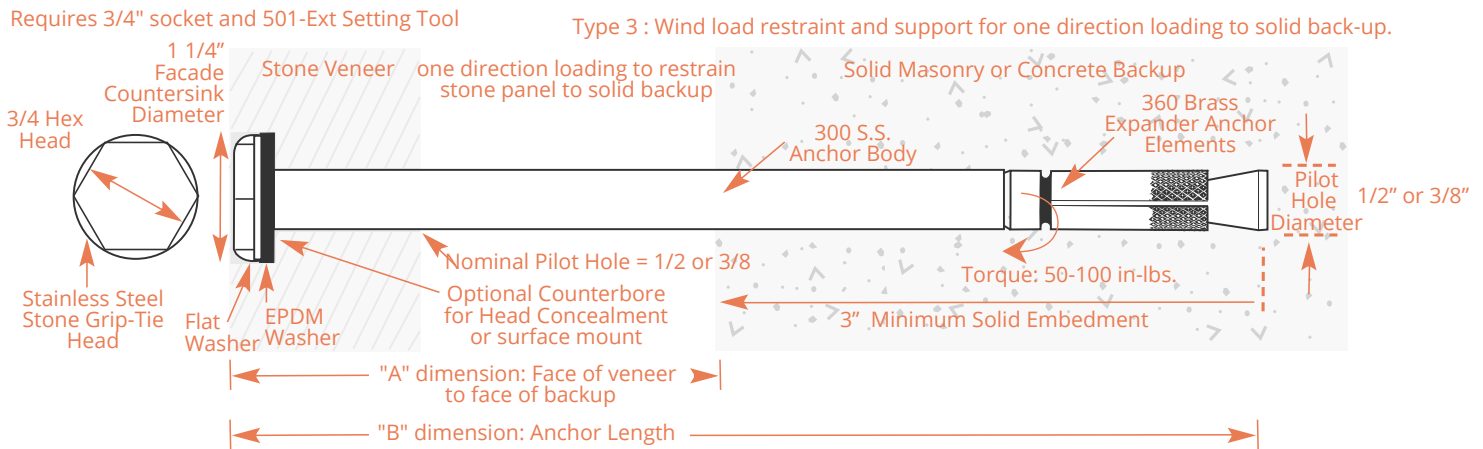
CATALOG #	ANCHOR SHAFT LENGTH	A
Toggle		
62355-150N450	4.5"	2-3/4" - 3-3/4"
62355-150N550	5.5"	3-3/4" - 4-3/4"
62355-150N650	6.5"	4-3/4" - 5-3/4"
62355-150N650	7.5"	5-3/4" - 6-3/4"

other lengths available upon request

TYPE 3 ANCHORS

WIND RESTRAINT AND SUPPORT; ONE DIRECTION STONE WIND LOAD

6500 (1/2" Dia.) 3 Series Anchor 6600 (3/8" Dia.) 3 Series Anchor



1. Locate anchor placement per specified location.
2. Drill appropriate diameter hole through the stone with a suitable "stone drilling" drill bit, and into the solid backup to a depth 3/8" greater than the anchor length.
3. Blow out drill fines.
4. On center with the pilot hole, drill a counter-bore 1-1/4" minimum diameter hole into the stone facade 3/8" - 1/2" deep from the face of the stone on center with the previous drilled holes.
5. Assemble anchor shaft without head to the 501-EXT Setting Tool; slide assembly through the drilled holes until the expansion anchor bottoms in the concrete drilled hole; tighten by turning clockwise until 50-100 in-lbs of torque is reached; remove setting tool.
6. Attach Stone Grip head and washer with EPDM washer to the anchor shaft using an appropriate hex socket, hand-tighten clockwise until the washer and head bottom out into the counter-bore, tighten 20 - 25 in-lbs; remove tool.
7. Installation complete, patch or conceal anchorage per specification requirements.

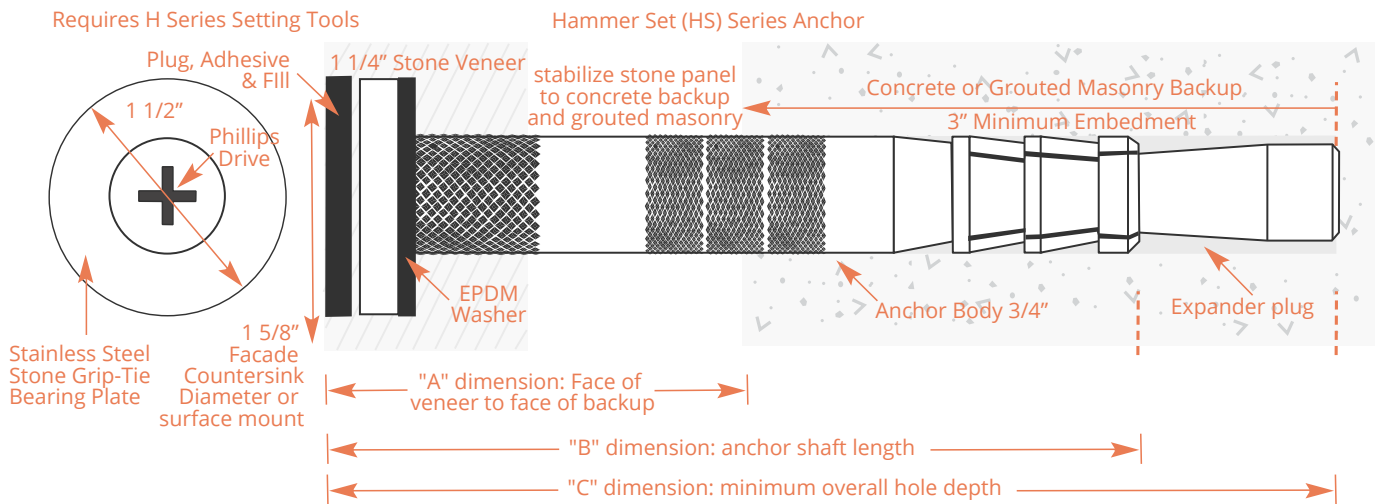
CATALOG #		A	B
6500 SERIES	6600 SERIES		
Backup & Pilot Hole Diameter			
1/2"	3/8"		
62365-50N500	62365-37N600	0-2"	5"
62365-50N600	62365-37N600	0-3"	6"
62365-50N700	62365-37N700	0-4"	7"
62365-50N800	62365-37N800	0-5"	8"

other lengths available upon request

TYPE 3 ANCHORS

WIND RESTRAINT AND SUPPORT; ONE DIRECTION STONE WIND LOAD

6800-3 Series Anchor



1. Locate anchor placement per specified location.
2. Drill appropriate diameter hole through the stone with a suitable "stone drilling" drill bit, and into the solid backup to a depth indicated in the chart.
3. Blow out drill fines.
4. On center with the pilot hole, drill a counter-bore 1-1/2" minimum diameter hole into the stone facade 3/8" - 1/2" deep from the face of the stone on center with the previous drilled holes.
5. Assemble the anchor shaft without the Stone Grip-Tie Bearing Plate assembly to the H Series Setting Tool; slide assembly through the drilled holes until the expansion anchor bottoms in the concrete drilled hole; using a hand-held hammer, firmly strike the setting tool until hammer rebounds lively; remove setting tool.
6. Attach Stone Grip-Tie Bearing Plate assembly to the anchor shaft; hand tighten clockwise until the assembly bottoms out into the counter-bore, 20-25 in-lbs.
7. Installation complete, patch or conceal anchorage per specification requirements.

CATALOG #	A: FACE OF VENEER TO FACE OF BACK-UP	B: ANCHOR SHAFT LENGTH (IN)	C: MINIMUM OVERALL HOLE DEPTH (IN)
62375-75N562	2-1/2"	4-5/8"	5-3/8"
62375-75N662	3-1/2"	5-5/8"	6-3/8"
62375-75N572	4-1/2"	6-5/8"	7-3/8"

Head can be surface mounted or recessed in a 3/16" deep counterbore. Minimum concrete cover at anchor bottom = 3.5 X F. Other lengths available upon request