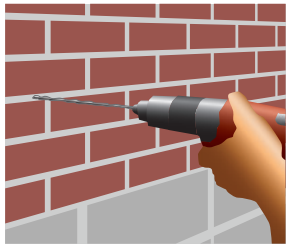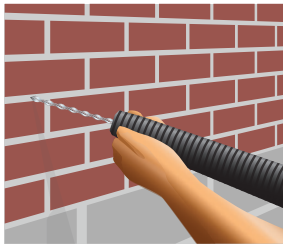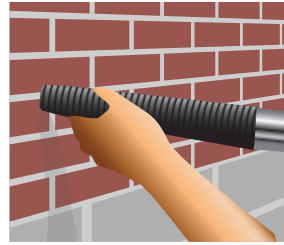# STITCH-TIE

INSTALLATION GUIDE
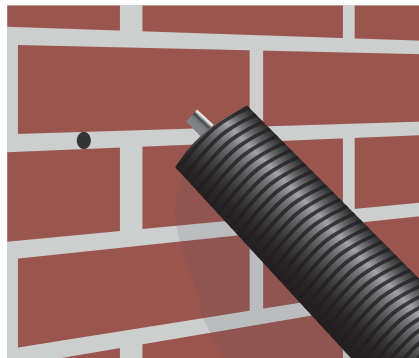
WATCH INSTALLATION VIDEO

STEP 1
After consulting the drill bit sizing chart, drill a pilot hole using a percussion hammer drill (3-jaw-chuck type) through the facade material.

STEP 2
Insert the Stitch-Tie into the setting tool mounted on a SDS rotary hammer drill.

STEP 3
Drive the Stitch-Tie until the nose of the setting tool is hard against the veneer.

STEP 4
The setting tool automatically recesses the Stitch-Tie into the face of the masonry. Patch hole.

CHOOSING THE RIGHT STITCH-TIE

STITCH-TIE LENGTH SELECTION*

Nominal Length	Minimum Drilled Hole Depth	Cavity Range to Backup CMU (solid & hollow)	Concrete
6"	6-5/8"	1" – 0	1-1/2" – 0
7"	7-5/8"	2" – 0	2-1/2" – 1-1/2"
8"	8-5/8"	3" – 0	3-1/2" – 1-1/2"
10"	10-5/8"	5" – 0	5-1/2" – 3-1/2"
12"	12-5/8"	7" – 0	7-1/2" – 5-1/2"

* Based on nominal 4" outer wythe

CHOOSING THE RIGHT DRILL BIT
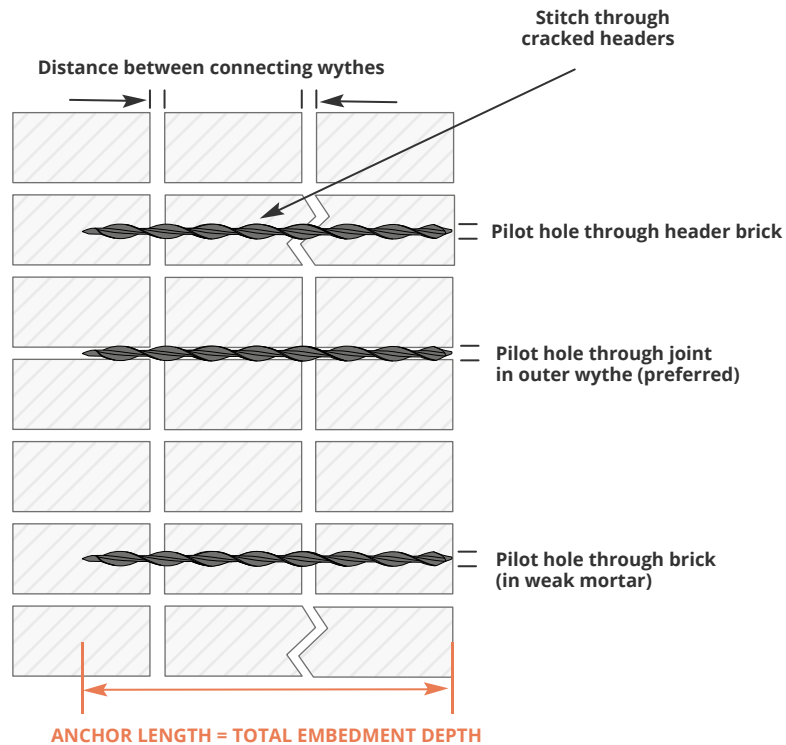
TYPICAL STITCH-TIE MASONRY BIT SIZE

Facade Material	Stitch-Tie	Mortar Joint	Brick	CMU Hollow	CMU Solid	Concrete	Wood Stud	Metal Stud	Tile	Plywood & OSB
Mortar Joint										
	8mm	3/16"	1/4"	3/16"	3/16"	1/4"	3/16"	3/16"	3/16"	3/16"
	10mm	1/4"	5/16"	1/4"	5/16"	5/16"	1/4"	1/4"	1/4"	1/4"
Brick										
	8mm	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
	10mm	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"
CMU										
Hollow										
	8mm	3/16"	1/4"	3/16"	3/16"	1/4"	3/16"	3/16"	3/16"	3/16"
	10mm	1/4"	5/16"	1/4"	5/16"	5/16"	1/4"	1/4"	1/4"	1/4"
Solid										
	8mm	1/4"	7/32"	3/16"	3/16"	7/32"	3/16"	3/16"	3/16"	3/16"
	10mm	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"
Precast Concrete										
	8mm	1/4"	1/4"	1/4"	1/4"	7/32"	1/4"	1/4"	1/4"	1/4"
	10mm	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"
Stone										
	8mm	1/4"	7/32"	1/4"	1/4"	7/32"	1/4"	1/4"	1/4"	1/4"
	10mm	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"

BACKUP MATERIAL

PROSOCO

SELECTING THE RIGHT LENGTH OF STITCH-TIE
and installing it properly

Reconnecting Multi-Wythes Brick

Anchor Length = Total Embedment Depth

Distance between connecting wythes

Stitch through cracked headers

Pilot hole through header brick

Pilot hole through joint in outer wythe (preferred)

Pilot hole through brick (in weak mortar)

ANCHOR LENGTH = TOTAL EMBEDMENT DEPTH

NOTE: Pilot hole depth should be greater than anchor length by 1" minimum.

Brick Veneer to Concrete Backup

Minimum Anchor Length Required = A + 1-1/4"

A (FROM FACE OF CONCRETE TO FACE OF VENEER)

Pilot hole in joint of veneer (preferred)

Pilot hole in backup

Minimum embedment 1-1/4"

Pilot hole through brick (if mortar quality is questionable)

MINIMUM ANCHOR LENGTH REQUIRED
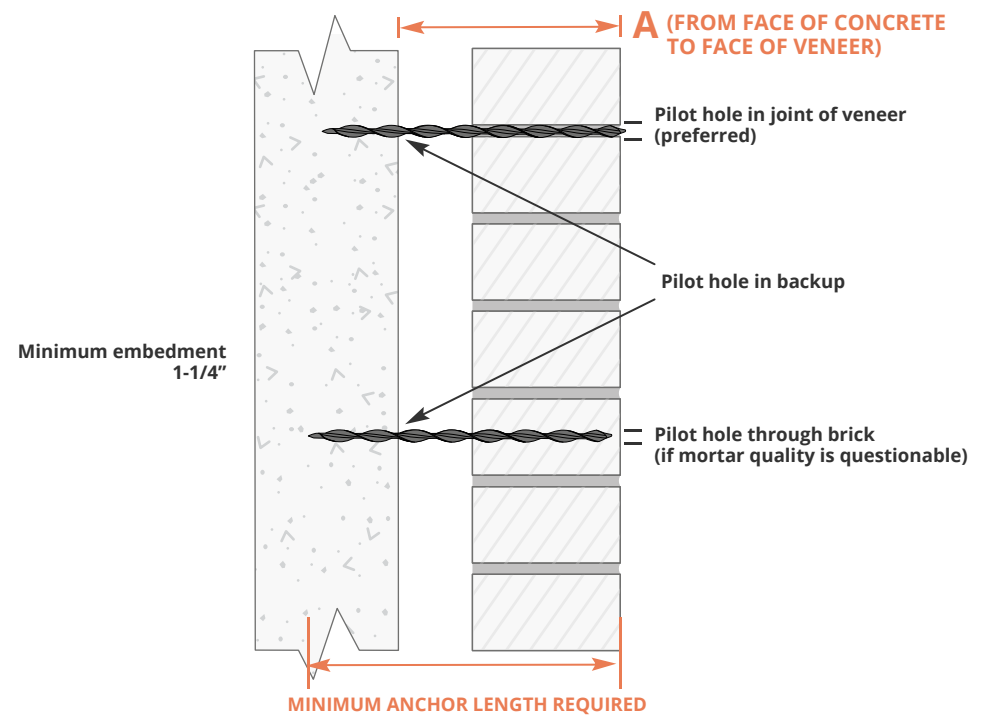
NOTE: Pilot hole depth should be greater than anchor length by 1" minimum.

SELECTING THE RIGHT LENGTH OF STITCH-TIE
and installing it properly

Brick Veneer to Hollow or Solid CMU Backup

Overall Anchor Length = A + B + C

B (DISTANCE BETWEEN CONNECTING WYTHES)

A (VENEER THICKNESS)

Pilot hole in joint of veneer (preferred)

C (MINIMUM EMBEDMENT EQUALS FACE SHELL THICKNESS PLUS 1")

Brick Veneer

Total embedment equals face shell plus 1" in backup (C)

Pilot hole through brick (if mortar quality is questionable)

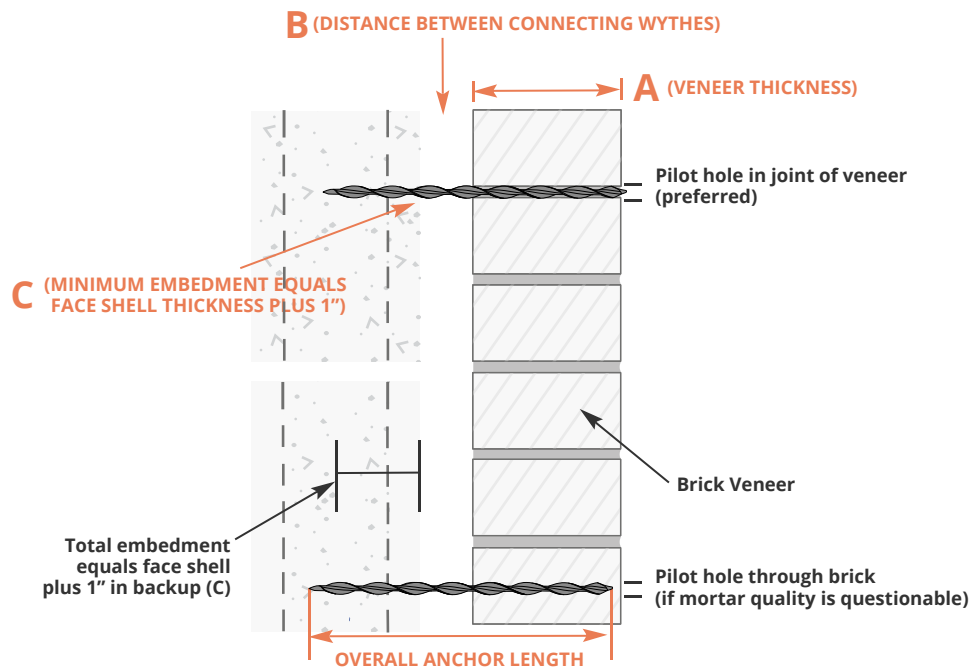OVERALL ANCHOR LENGTH

NOTE: Pilot hole should be greater than anchor length by 1" minimum.

Brick Veneer to Clay Tile Backup

Minimum Anchor Length Required = A + B + 1"

B (EFFECTIVE EMBEDMENT BACKUP, EQUAL TWO FACE SHELLS THICKNESSES (MIN) PLUS 1")

Pilot hole in joint of veneer (preferred)

Brick veneer

Tile backup

A (FACE OF BRICK TO FACE OF TILE BACKUP)

Pilot hole through brick

MINIMUM ANCHOR LENGTH REQUIRED

PROSOCO
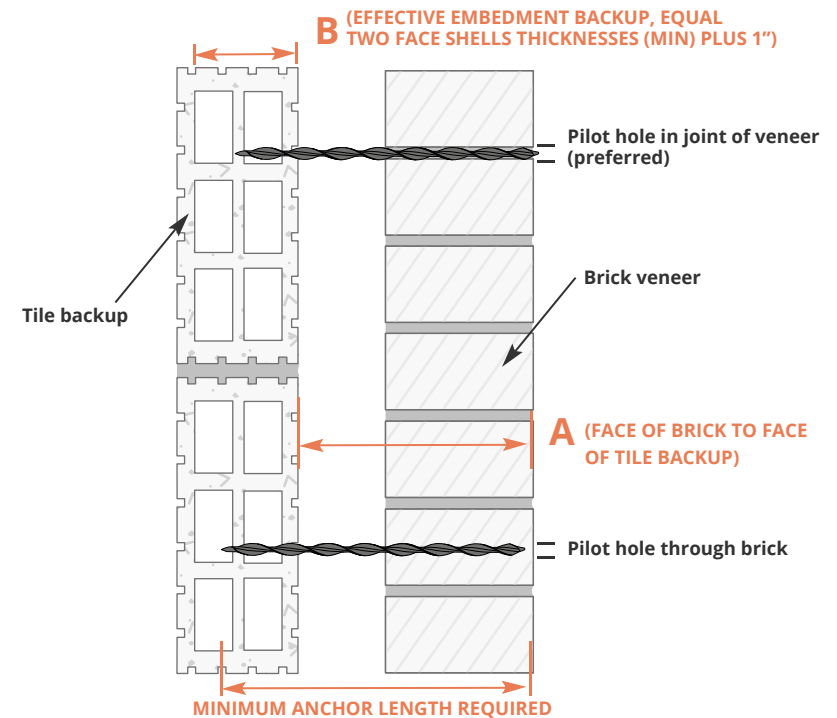
SELECTING THE RIGHT LENGTH OF STITCH-TIE
and installing it properly

Brick Veneer to Wood

Minimum Anchor Length Required = A + 1-1/2″

Section view

A (FROM FACE OF BRICK TO FACE OF STUD)

Pilot hole through bed joint and stud (preferred)

Brick Veneer

Pilot hole in backup

Wood Stud

Pilot hole through brick and stud (if mortar quality is questionable)

Minimum embedment 1-1/2″– 3″

MINIMUM ANCHOR LENGTH REQUIRED

Plan view

Brick Veneer

Wood Studs

MINIMUM ANCHOR LENGTH REQUIRED

NOTE: Pilot hole depth should be greater than anchor length by 1/2″ minimum.

PROSOCO

SELECTING THE RIGHT LENGTH OF STITCH-TIE
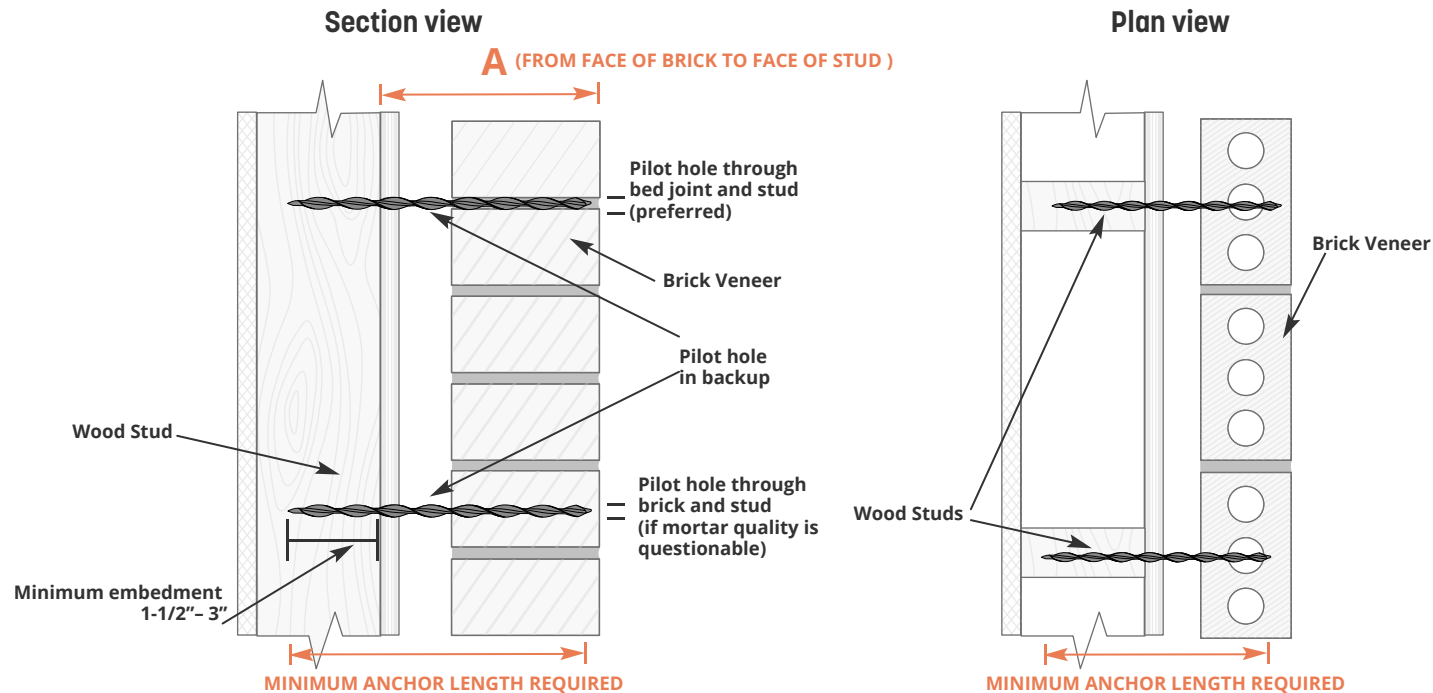## and installing it properly

Brick Veneer to Metal Stud

Minimum Anchor Length Required = **A + 1"**

Section view

A (FROM FACE OF BRICK TO FACE OF STUD)

Pilot hole through bed joint and stud (preferred)

Brick Veneer

Pilot hole in backup

Pilot hole through brick and stud (if mortar quality is questionable)

Metal Stud (16 ga)

MINIMUM ANCHOR LENGTH REQUIRED

Plan view

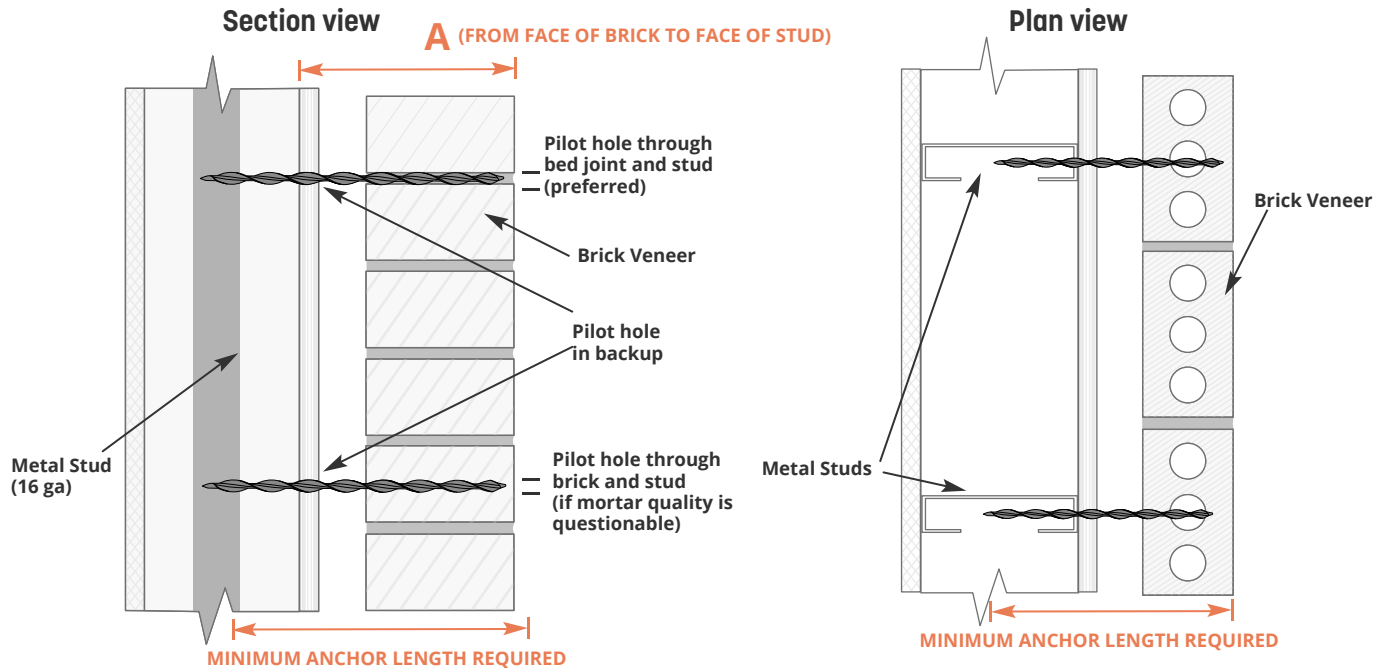Brick Veneer
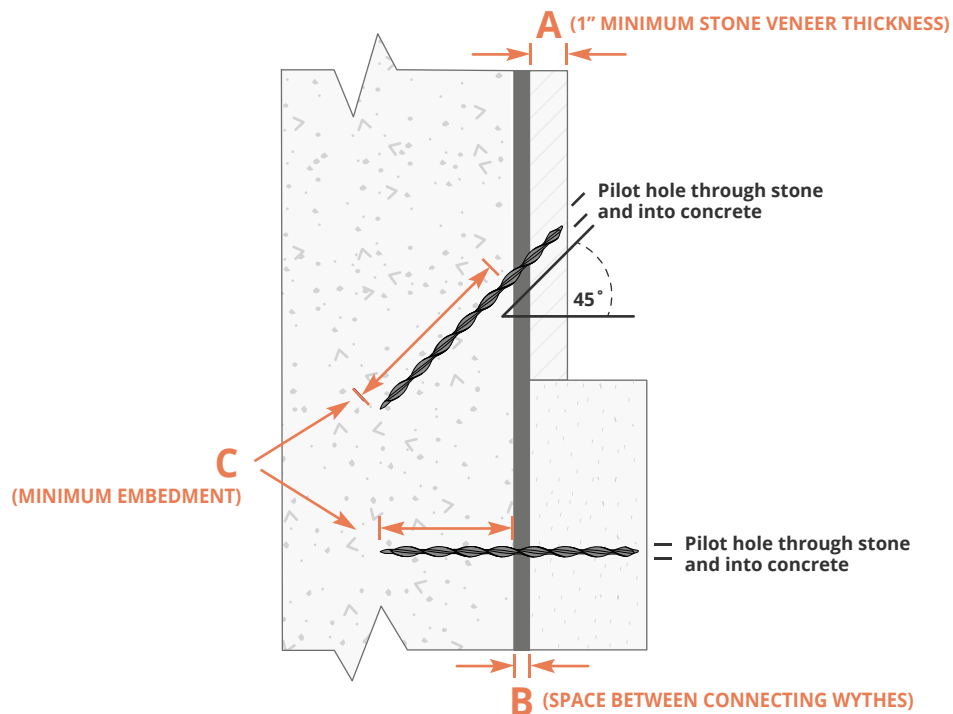
Metal Studs

MINIMUM ANCHOR LENGTH REQUIRED

NOTE: Pilot hole depth should be greater than anchor length by 1/2" minimum.

SELECTING THE RIGHT LENGTH OF STITCH-TIE
and installing it properly

Travertine or Limestone Panels to Concrete Backup

Anchor Length Required = A + B + C

A (1" MINIMUM STONE VENEER THICKNESS)

Pilot hole through stone and into concrete

45°

C (MINIMUM EMBEDMENT)

Pilot hole through stone and into concrete

B (SPACE BETWEEN CONNECTING WYTHES)

Terra Cotta to Concrete or Masonry Backup

Overall Anchor Length = A + B + C

A (VENEER THICKNESS)

Pilot holes through terra cotta and concrete

C (MINIMUM EMBEDMENT IN HOLLOW CMU BACKUP = FACE SHELL THICKNESS PLUS 1")

Pilot hole depth in solid backup should be 1" deeper than anchor is long

B (DISTANCE BETWEEN CONNECTING WYTHES)