

ANCHORING SOLUTIONS CATALOG



EPOXY | MECHANICAL ANCHORS | ACCESSORIES

MiTek® **PRO**
SERIES™

1-800-328-5934
MITEK-US.COM

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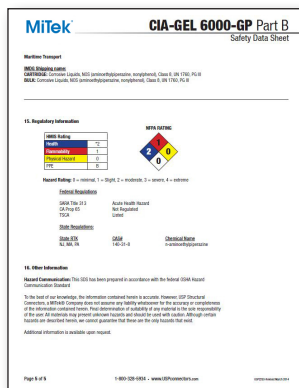
EPOXY

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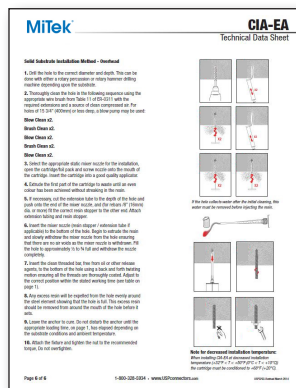
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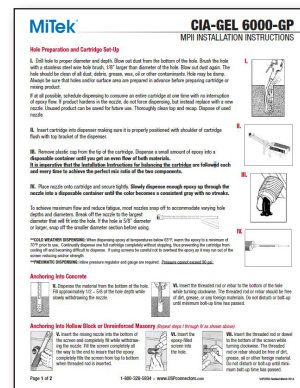
Available Online:



Safety Data Sheets (SDS)



Technical Data Sheets (TDS)



Manufacturers Published
Installation Instructions (MPII)

Visit [MiTek-US.com/products/Anchoring-Solutions/](https://www.MiTek-US.com/products/Anchoring-Solutions/)
for the latest SDS, TDS and MPII sheets.

EPOXY



MiTek[®] PRO SERIES[™]

CIA-GEL 7000-C Epoxy is an adhesive designed to attach threaded anchor rods into concrete that is, or may become, cracked due to cyclic loading from earthquakes or wind. It may also be used with fully grouted CMU construction. It is a low odor, solvent free, non-shrink, non-sag adhesive. The two-component (resin and hardener) epoxy is supplied in equal volume cartridges, which are combined in a 1:1 ratio when dispensed through the attached mixing nozzle. Either a hand powered or air-powered dispenser may be used. The cartridges are sealed with a D-plug which opens easily on the jobsite and allows partially used cartridges to be saved for later use. The epoxy has a two year shelf life when stored in unopened containers at temperatures between 10°C/50°F and 25°C/77°F.

- ➔ Designed for tension and shear loads due to wind or earthquake (ASCE Seismic Design C-F)
- ➔ High Strength: 3/4" Ø anchor with 9-3/8" embedment has a seismic LRFD tension capacity of 10,000 lbs in cracked concrete (A193 B7 threaded rod in 15" deep foundation located away from edge, $f'_c=2,500$ psi)
- ➔ 15 minute gel time and 8 hour cure time (between 15°C/59°F to 22°C/72°F) provides convenient installation
- ➔ Use with threaded steel rod or deformed rebar
- ➔ Can be installed in dry, saturated or water filled holes
- ➔ No shrinkage
- ➔ Can also be used for horizontal and overhead installations (max size 1-1/4" rod or #10 rebar)
- ➔ Easy to dispense
- ➔ MXDA free (Meta-xylenediamine) and VOC free (volatile organic compounds)

APPLICATIONS

- ➔ Anchors threaded rod or deformed rebar into cracked or uncracked concrete
- ➔ Anchoring All Thread Rod for holdowns into concrete for high seismic zones (SDC C-F)
- ➔ Horizontal and overhead anchoring applications (requires special inspection)
- ➔ **CODE REPORTS:** IBC, FL, LA, NSF/ANSI Standard 61 Listed



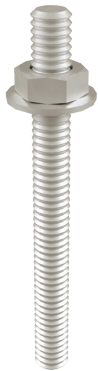
BEST FOR SEISMIC APPLICATIONS WITH CRACKED CONCRETE



AVAILABLE SIZES :

8.5-fl oz – GEL7C-10
20.3-fl oz – GEL7C-22

CIA-GEL 7000-C			
MiTek Stock No.	GEL7C-10	GEL7C-22	GEL7C-56
Size	8.5-fl oz	20.3-fl oz	50.7-fl oz
Dispensers	MiTek HDT-10 Cox 300ml Manual	MiTek HDT-22 MiTek PDT-22 Newborn 600ml Manual Newborn 600ml Pneumatic	MiTek PDT-56
Nozzle(s)	7C-SMN	7C-SMN 7C-XLMN	7C-SMN 7C-XLMN



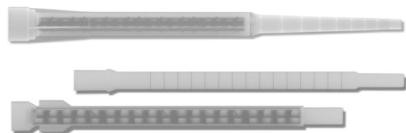
THREADED ROD					
Rod Dia. (in)	Hole Dia. (in)	Wire Brush Type	Nozzle Type	Extension Tube (if needed)	Resin Stopper (if needed)
3/8	1/2	7CHCB-12	7C-SMN	FXT-38	n/a
1/2	9/16	7CHCB-916	7C-SMN	FXT-38	n/a
5/8	3/4	7CHCB-34	7C-SMN or 7C-XLMN	FXT-916	ERS-34
3/4	7/8	7CHCB-78	7C-XLMN	FXT-916	ERS-34
7/8	1	7CHCB-1	7C-XLMN	FXT-916	ERS-1
1	1-1/8	7CHCB-118	7C-XLMN	FXT-916	ERS-1
1-1/4	1-3/8	7CHCB-138	7C-XLMN	FXT-138	ERS-138



REBAR					
Rebar Size	Hole Dia. (in)	Wire Brush Type	Nozzle Type	Extension Tube (if needed)	Resin Stopper (if needed)
No 3	9/16	7CHCB-916	7C-SMN	FXT-38	n/a
No 4	5/8	7CHCB-58	7C-SMN or 7C-XLMN	FXT-38	n/a
No 5	3/4	7CHCB-34	7C-SMN or 7C-XLMN	FXT-916	ERS-34
No 6	7/8	7CHCB-1*	7C-XLMN	FXT-916	ERS-34
No 7	1	7CHCB-118*	7C-XLMN	FXT-916	ERS-1
No 8	1-1/8	7CHCB-112*	7C-XLMN	FXT-916	ERS-1
No 10	1-3/8	7CHCB-158*	7C-XLMN	FXT-916	ERS-138

* Increased brush size required for rebar

Mixing Nozzles



Hand Dispensing Tool



Extension Tube



Resin Stoppers



Wire Brush



CIA-GEL 7000 Epoxy is a structural adhesive specifically designed to attach threaded anchor rods into fully grouted concrete masonry units (CMU) and evaluated to ICC-ES AC508 for seismic, sustained load, elevated temperature and freeze-thaw suitability conditions. It can also be used to install anchor rods into uncracked concrete and reinforced brick. It is a low odor, solvent free, non-shrink adhesive. The two-component (resin and hardener) epoxy is supplied in equal volume cartridges, which are combined in a 1:1 ratio when dispensed through the attached mixing nozzle. Either a hand-powered or air-powered dispenser may be used. The cartridges are sealed with a D-plug which opens easily on the job-site and allows partially used cartridges to be saved for later use. The epoxy has a two year shelf life when stored in unopened containers at a temperature of 21°C/70°F.

- Designed for tension and shear loads due to wind or earthquake
- Can also be used for long term static tension and shear loads
- High Strength: 1/2" Ø anchor with 4-1/2" embedment has an allowable static tension force over 1,600 lbs (A 307 threaded rod, Grade N CMU)
- Hardware may be installed and nuts tightened in 6 hours with full cure in 36 hours (between 15°C/61°F to 21°C/70°F)
- Use with threaded steel rod or deformed rebar
- No shrinkage
- MXDA free (Meta-xylenediamine) and VOC free (volatile organic compounds)

APPLICATIONS

- Anchors continuously threaded steel rod and deformed rebar into fully grouted CMU
- Brick veneer anchoring
- Crack injection of medium to wide cracks
- Anchors rebar and threaded steel rod into uncracked concrete

- **CODE REPORTS:** IBC, FL, LA



BEST FOR APPLICATIONS IN FULLY GROUTED MASONRY

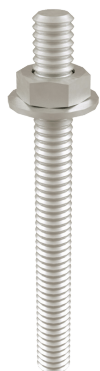


AVAILABLE SIZES:

8.6-fl oz – GEL7-10

21.2-fl oz – GEL7-22

CIA-GEL 7000		
MiTek Stock No.	GEL7-10	GEL7-22
Size	8.6 -fl oz	21.2-fl oz
Dispensers	MiTek HDT-10 Cox 300ml manual	MiTek HDT-22 MiTek PDT-22 Newborn 600ml manual Newborn 600ml pneumatic
Nozzle(s)	7C-SMN	7C-SMN 7C-XLMN



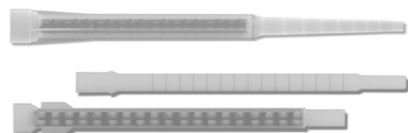
THREADED ROD					
Rod Dia. (in)	Hole Dia. (in)	Wire Brush Type	Nozzle Type	Extension Tube (if needed)	Resin Stopper (if needed)
3/8	1/2	7CHCB-12	7C-SMN	FXT-38	n/a
1/2	5/8	7CHCB-916	7C-SMN	FXT-38	n/a
5/8	3/4	7CHCB-34	7C-SMN or 7C-XLMN	FXT-916	ERS-34
3/4	7/8	7CHCB-78	7C-XLMN	FXT-916	ERS-34
7/8	1	7CHCB-1	7C-XLMN	FXT-916	ERS-1
1	1-1/4	7CHCB-118	7C-XLMN	FXT-916	ERS-1
1-1/4	1-1/2	7CHCB-138	7C-XLMN	FXT-138	ERS-138



REBAR					
Rebar Size	Hole Dia. (in)	Wire Brush Type	Nozzle Type	Extension Tube (if needed)	Resin Stopper (if needed)
No 3	9/16	7CHCB-916	7C-SMN	FXT-38	n/a
No 4	5/8	7CHCB-58	7C-SMN or 7C-XLMN	FXT-38	n/a
No 5	3/4	7CHCB-34	7C-SMN or 7C-XLMN	FXT-916	ERS-34
No 6	7/8	7CHCB-1*	7C-XLMN	FXT-916	ERS-34
No 7	1	7CHCB-118*	7C-XLMN	FXT-916	ERS-1
No 8	1-1/8	7CHCB-112*	7C-XLMN	FXT-916	ERS-1
No 10	1-3/8	7CHCB-158*	7C-XLMN	FXT-916	ERS-138

* Increased brush size required for rebar

Mixing Nozzles



Hand Dispensing Tool



Extension Tube



Resin Stoppers



Wire Brush



CIA-GEL 6000-GP is a superior epoxy specifically designed for general purpose structural applications that require quick load times and for doweling applications requiring state DOT approval. It is a two-component (1:1 ratio) adhesive epoxy with 100% solids and is solvent free, moisture insensitive, non-sag and has no odor. It provides exceptional strength in anchoring and doweling applications and can be used in temperatures between 1°C/35°F to 45°C/110°F. The epoxy has a two year shelf life when stored in unopened containers at temperatures between 4°C/40°F to 35°C/95°F.

- ➔ Exceptional bond strength: 3,410 psi in 2 days @ 75°F
- ➔ Working Time: 20 minutes @ 75°F
- ➔ Load Time: Can apply 25% Full Load in 2 hours @ 75°F, 100% full load in 24 hours @ 75°F
- ➔ VOC free (volatile organic compounds)

APPLICATIONS

- ➔ Doweling applications for rebar and tie bars for full depth concrete pavement repairs
- ➔ Anchoring and bracing for short term tensile load where dynamic, vibratory, wind or intermittent loads exist
- ➔ Use in concrete, grout filled block and unreinforced masonry for general purpose anchoring and doweling applications
- ➔ Concrete doweling road repairs where DOT approval is required

CODE REPORTS / STANDARDS

- ➔ Independently tested to ASTM C881-10, ASTM D695, ASTM D638, ASTM C882, ASTM C881, ASTM D648, ASTM D520 & ASTM C531
- ➔ AASMT0 M235
- ➔ DOT Approved in numerous states

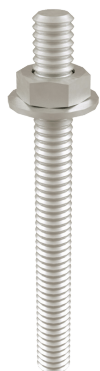
BEST FOR CONCRETE DOWELING APPLICATIONS WHERE DOT APPROVAL IS REQUIRED



AVAILABLE SIZES:

21.2-fl oz – GEL6GP-22

CIA-GEL 6000-GP	
MiTek Stock No.	GEL6GP-22
Size	21.2-fl oz
Dispensers	MiTek HDT-22 MiTek PDT-22 Newborn 600ml manual Newborn 600ml pneumatic
Nozzle(s)	7C-SMN 7C-XLMN



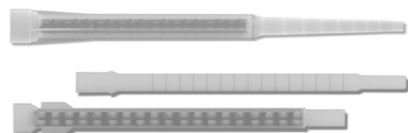
THREADED ROD					
Rod Dia. (in)	Hole Dia. (in)	Wire Brush Type	Nozzle Type	Extension Tube (if needed)	Resin Stopper (if needed)
3/8	1/2	7CHCB-12	7C-SMN	FXT-38	n/a
1/2	5/8	7CHCB-916	7C-SMN	FXT-38	n/a
5/8	3/4	7CHCB-34	7C-SMN or 7C-XLMN	FXT-916	ERS-34
3/4	7/8	7CHCB-78	7C-XLMN	FXT-916	ERS-34
7/8	1	7CHCB-1	7C-XLMN	FXT-916	ERS-1
1	1-1/4	7CHCB-118	7C-XLMN	FXT-916	ERS-1
1-1/4	1-1/2	7CHCB-138	7C-XLMN	FXT-138	ERS-138



REBAR					
Rebar Size	Hole Dia. (in)	Wire Brush Type	Nozzle Type	Extension Tube (if needed)	Resin Stopper (if needed)
No 3	9/16	7CHCB-916	7C-SMN	FXT-38	n/a
No 4	5/8	7CHCB-58	7C-SMN or 7C-XLMN	FXT-38	n/a
No 5	3/4	7CHCB-34	7C-SMN or 7C-XLMN	FXT-916	ERS-34
No 6	7/8	7CHCB-1*	7C-XLMN	FXT-916	ERS-34
No 7	1	7CHCB-118*	7C-XLMN	FXT-916	ERS-1
No 8	1-1/8	7CHCB-112*	7C-XLMN	FXT-916	ERS-1
No 10	1-3/8	7CHCB-158*	7C-XLMN	FXT-916	ERS-138

* Increased brush size required for rebar

Mixing Nozzles



Hand Dispensing Tool



Extension Tube



Resin Stoppers



Wire Brush



CIA-EA Adhesive Anchoring System is an epoxy acrylate specifically designed to be a high strength, fast cure structural adhesive for anchoring threaded rod and deformed rebar into uncracked concrete. It has the added advantage of being formulated to be used in colder temperatures (0°C/32°F) while maintaining excellent flowability. CIA-EA may also be used with fully grouted CMU and reinforced brick construction. It is a 2-component, 100% solids, moisture insensitive adhesive that is ideally suited for a wide range of applications. It is composed of a proprietary blend of solvent free epoxy acrylate resin and is backed by independent research and testing. The epoxy has a 15 month shelf life when stored in unopened containers at temperatures between 5°C/41°F to 25°C/77°F.

- Approved for static, wind and seismic (ASCE Seismic Design A & B) loads for uncracked concrete
- NSF/ANSI 61 Listed, safe for water treatment projects and other drinking water systems
- High performance acrylate epoxy cures in 40 minutes (20°C/68°F to 35°C/95°F)
- Partially used cartridges may be resealed for later use
- All weather formula, can be installed in base material temperature of 0°C/32°F to 35°C/95°F
- Can be installed in damp holes
- Cartridge fits in a single component dispenser
- VOC free (volatile organic compound)

APPLICATIONS

- Anchor all thread rod into concrete
- May also be used to anchor rebar, started bars and dowels
- Applications requiring fast cure times
- Cold weather applications
- Can be used in horizontal anchoring applications
- Can be used in overhead anchoring applications (requires special inspection)
- **CODE REPORTS:** IBC, NSF/ANSI Standard 61 Listed

BEST FOR ANCHORING ALL THREADED RODS INTO UNCRACKED CONCRETE IN COLDER TEMPERATURES



AVAILABLE SIZE:

9.4-fl oz – EA-10



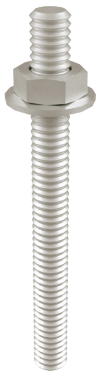
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Certified to
NSF/ANSI 61

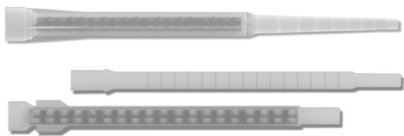
Drinking Water
Certification

CIA-EA	
MiTek Stock No.	EA-10
Size	9.4-fl oz
Dispensers	MiTek HDT-9 Cox 41004-2T 280ml manual
Nozzle	EA-SMN



THREADED ROD					
Rod Dia. (in)	Hole Dia. (in)	Wire Brush Type	Nozzle Type	Extension Tube (if needed)	Resin Stopper (if needed)
5/16	3/8	EAHCB-516	EA-SMN	n/a	n/a
3/8	1/2	EAHCB-38	EA-SMN	FXT-38	n/a
1/2	9/16	EAHCB-12	EA-SMN	FXT-38	n/a
5/8	3/4	EAHCB-916	EA-SMN	FXT-916	ERS-34
3/4	7/8	EAHCB-34	EA-SMN	FXT-916	ERS-34
1	1-1/8	EAHCB-1	EA-SMN	FXT-916	ERS-1

Mixing Nozzles



Hand Dispensing Tool



Extension Tube



Resin Stoppers



Wire Brush



Incredi-Bond® is a high strength two-component epoxy specifically designed to be a bonding agent for almost all household materials including wood, steel, concrete, brick, stone and CMU block. It is moisture insensitive and can also be used to fill cracks in concrete, block and stone. The epoxy has a 2 year shelf life when stored in unopened containers in dry conditions between 4°C/40°F to 32°C/90°F.

- High Strength (over 1,000 psi bond strength in 2 days)
- Quick initial Cure (2 hours at 24°C/75° F)
- Convenient 30 minute working time
- Trowelable, sandable, paintable
- Cures in damp environments
- Recommended for installation between 4°C/40°F to 38°C/100°F
- Easy tool clean up with M.E.K. or WD-40
- 100% solvent free system means low VOC content

| APPLICATIONS

- Bonding applications for:
 - Concrete
 - Brick
 - CMU block
 - Stone
 - Metal
 - Wood
- Repair vertical and overhead cracks in concrete (non-structural)
- Repair vertical and overhead spalls in concrete (5/8" deep & 3" diameter max)
- Non-sag, no-drip consistency makes this ideal for corner repairs to concrete and block walls, overhead patching and repairs
- Repair and replace brick
- Replace pool tile (no need to empty pool)
- Fill holes and cracks
- Not recommended for structural applications

BEST FOR MULTI-PURPOSE MAINTENANCE, REPAIR & OVERHAUL PROJECTS



AVAILABLE SIZE:
8.6-fl oz – IB-9

TOOLS		
MiTek Stock No.	Description	Qty/Box
PDT-22	Pneumatic Dispensing Tool 21oz	1
HDT-10	Hand Dispensing Tool 10oz	1
HDT-9	Hand Dispensing Tool 9oz	1
HDT-28	Hand Dispensing Tool 28oz	1
BRUSHES		
MiTek Stock No.	Description	Qty/Box
NB129	1/2" Nylon Brush	20
NB3412	3/4" Nylon Brush	1
NB118	1" Nylon Brush	1
AIR NOZZLE EXTENSION		
MiTek Stock No.	Description	Qty/Box
AN18	18" Air Nozzle Extension	1
INJECTION PORTS		
MiTek Stock No.	Description	Qty/Box
CCP	Corner Port	1
CINOZ	1/4" x 13" Injection Nozzel	1
CIP	Injection Port	1
CPHA	Port Hose Adapter	1
WIRE MESH SCREEN TUBES		
MiTek Stock No.	Description	Qty/Box
CST1215	1/2" x 15" Seismic Screen Tube	50
CST151608	15/16" x 8" Seismic Screen Tube	50
CST151617	15/16" x 17" Seismic Screen Tube	50
CST3415	3/4" x 15" Seismic Screen Tube	50
CST5815	5/8" x 15" Seismic Screen Tube	50
OVERHEAD HOLE PLUGS		
MiTek Stock No.	Description	Qty/Box
HP12	1/2" Hole Plug	1
HP58	5/8" Hole Plug	1
HP34	3/4" Hole Plug	1
HP78	7/8" Hole Plug	1
HP1	1" Hole Plug	1
HP118	1-1/8" Hole Plug	1
HP114	1-1/4" Hole Plug	1
HP138	1-3/8" Hole Plug	1

PDT-22



Nylon Brush



18" Air Nozzle Extension



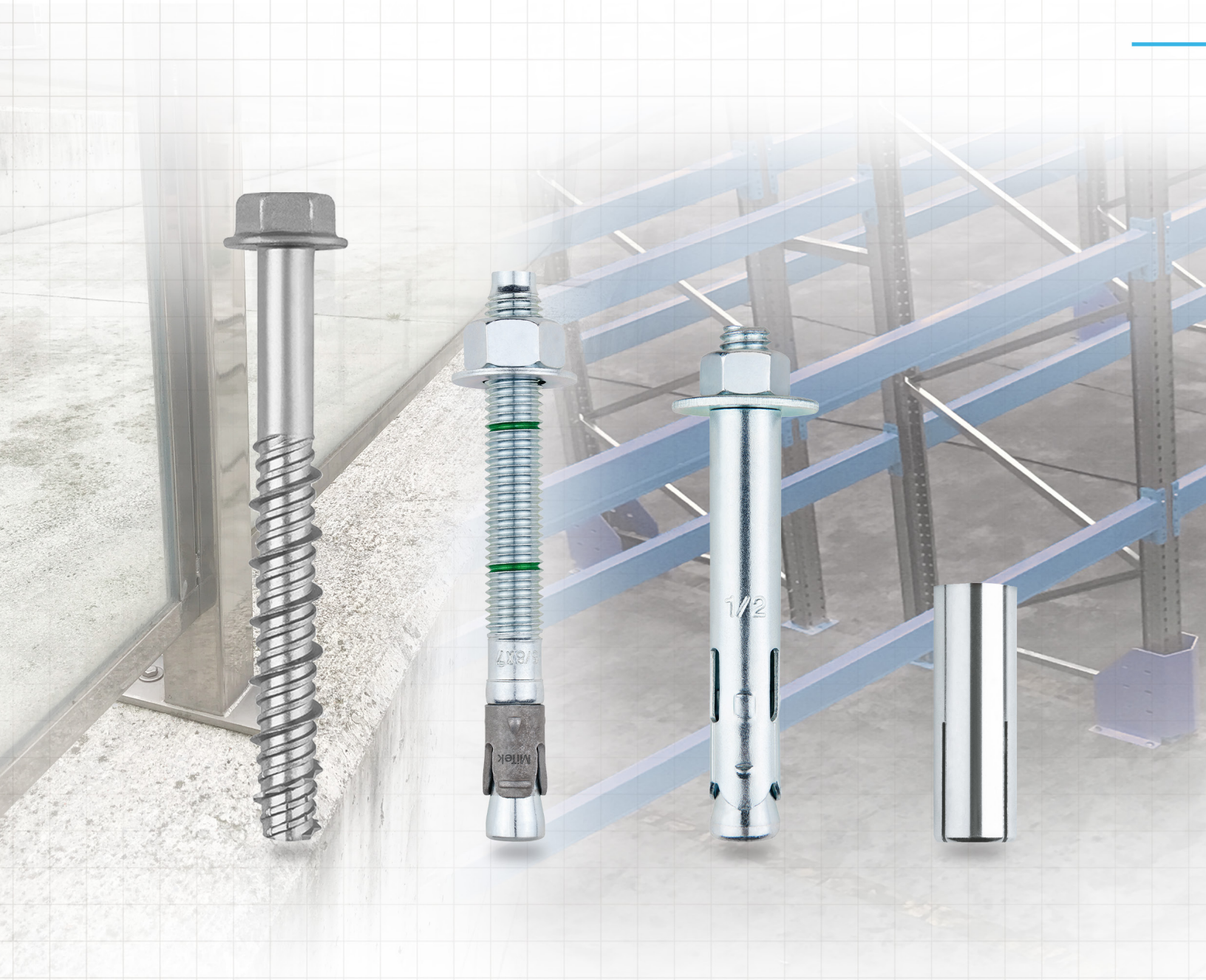
Wire Mesh Screen Tube



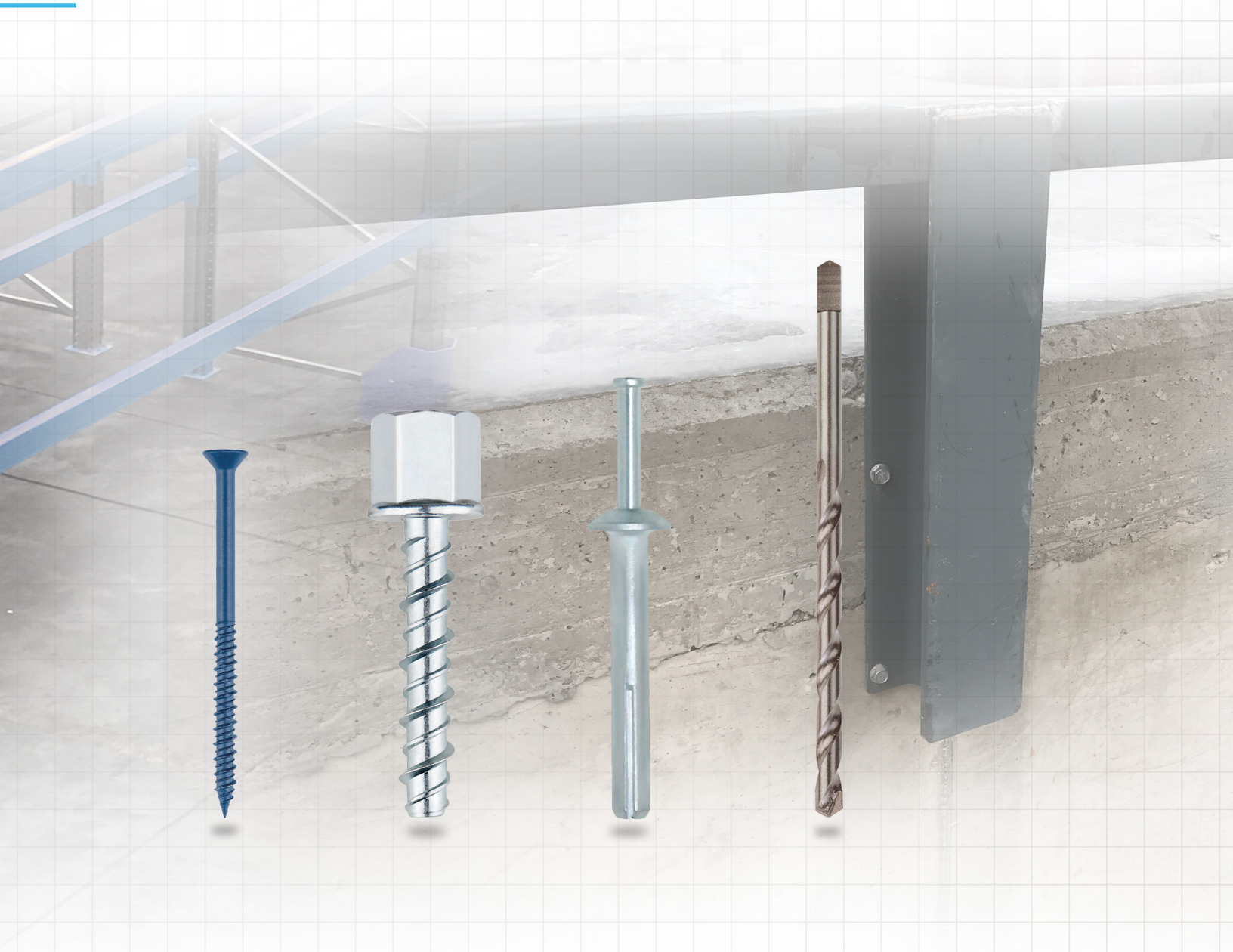
Overhead Hole Plug



MECHANICAL

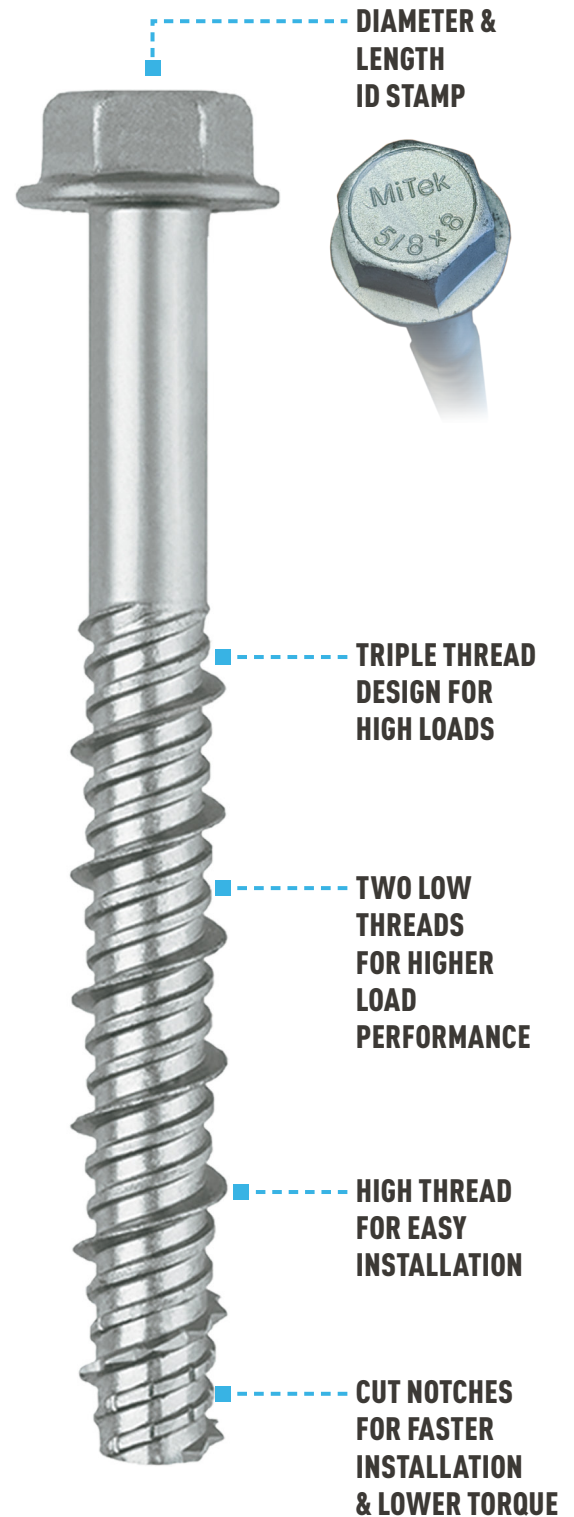


ANCHORING



MiTek[®] **PRO**
SERIES[™]

- ➔ Screw anchor for temporary or permanent attachment to uncracked and cracked concrete
- ➔ No special drill bit required; install using standard-sized ANSI tolerance drill bits
- ➔ Code evaluated to IBC/IRC in accordance with ICC-ES AC193 and ACI 355.2 for cracked and uncracked concrete
- ➔ Approved for use in wind and seismic applications
- ➔ Fully removable for temporary anchoring or applications where fixtures may need to be moved (e.g. formwork, bracing)
- ➔ Suitable for closer edge distance or tight spacing applications
- ➔ **CODE REPORTS:** IBC, FL, LA (3/8", 1/2", and 5/8" sizes)

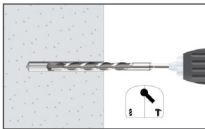
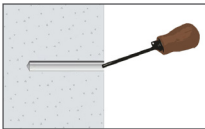
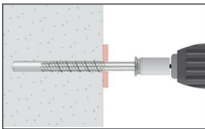
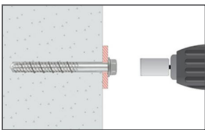


MiTek[®] PRO SERIES[™]

APPLICATIONS

- Structural fixings in cracked and uncracked concrete
- Formwork and fixing
- Racking and shelving
- Attaching railings, handrails, ledgers and sill plates
- Fixings of steel beams, channels, boilers, signals, stadium seatings, façade substructures, etc.

INSTALLATION

1. DRILL	2. BLOW & CLEAN	3. INSTALL	4. APPLY TORQUE
			
Drill a hole into the base material of the correct diameter and depth found in ICC-ES ESR-4419 using a drill bit that meets the requirements of ANSI B212.15-1994.	Remove dust and debris from hole using a blow bulb, compressed air or vacuum to remove the loose particles left from drilling.	Select a powered impact wrench that does not exceed maximum torque impact wrench torque rating or a torque wrench that is able to be set to the maximum installation torque found in ICC-ES ESR-4419. Attach an appropriate sized hex socket to the wrench. Mount the screw anchor head in the socket.	Drive the anchor with an impact driver or a torque wrench through the fixture and into the hole until the anchor head washer comes in contact with the fixture. the anchor must be snug after installation. Do not spin the hex socket off the anchor to disengage.



See detailed installation and design instructions at MiTek-US.com to ensure proper installation and to reduce risk failure which could result in injury and/or property damage. MiTek will not be liable for any anchor failure due to defective substrate material or improper installation

LOAD TABLE

Size (in)	MiTek Stock No.	Ref. No.	Drill Bit Dia. (in)	Head Size (in)	Minimum Anchor Embedment (in)	Maximum Installation Torque (ft-lbs)	Uncracked Concrete		Cracked Concrete		Ordering MiTek Stock No.	Pieces per Selling Unit	Selling Unit per Master Carton
							Allowable Tension (lbs)	Allowable Shear (lbs)	Allowable Tension (lbs)	Allowable Shear (lbs)			
5/16 x 2-1/4	SACH516214-EXT	--	5/16	1/2	1-1/2	10	1235	1330	--	--	SACH516214-EXTR20	20	6
5/16 x 3	SACH516300-EXT	--	5/16	1/2	2	10	1235	1330	--	--	SACH516300-EXTR20	20	6
3/8 x 3	SACH038300-EXT	THD37300HMG	3/8	9/16	2-1/2	35	1885	1955	1190	1280	SACH038300-EXTR10	10	6
3/8 x 4	SACH038400-EXT	THD37400HMG	3/8	9/16	2-1/2	35	1885	1955	1190	1280	SACH038400-EXTR10	10	4
											SACH038400-EXTR40F	40	1
1/2 x 4	SACH012400-EXT	THD50400HMG	1/2	3/4	3	45	2465	2655	1535	2065	SACH012400-EXTR20F	20	1
1/2 x 5	SACH012500-EXT	THD50500HMG	1/2	3/4	3	45	2465	2655	1535	2065	SACH012500-EXTR20F	20	1
1/2 x 6	SACH012600-EXT	THD50600HMG	1/2	3/4	3	45	2465	2655	1535	2065	SACH012600-EXTR20	20	3
											SACH012600-EXTR20F	20	1
5/8 x 6	SACH058600-EXT	THD62600HMG	5/8	15/16	3-1/4	85	2415	2605	1710	1845	SACH058600-EXTR10	10	3
											SACH058600-EXTR12F	12	1
5/8 x 6-1/2	SACH058612-EXT	THD62612HMG	5/8	15/16	3-1/4	85	2415	2605	1710	1845	SACH058612-EXTR10	10	3
											SACH058612-EXTR10F	10	1
5/8 x 8	SACH058800-EXT	THD62800HMG	5/8	15/16	3-1/4	85	2415	2605	1710	1845	SACH058800-EXTR8	8	--
											SACH058800-EXTR8F	8	1

1) Example Allowable Stress Design (ASD) values include an approximate safety factor of 4.

2) Values based on single anchor installations and do not consider critical edge distance or spacing. For full design information on 3/8", 1/2", and 5/8" sizes refer to ICC-ES ESR-4419.

3) Values in table assume concrete strength $f'_c = 4,000$ psi.

4) ASD values derived from the assumption of a single anchor with 30% dead load and 70% live load, and a controlling load combination of 1.2D+ 1.6L.

5) Values are for shear or tension only and do not work for a combination of such.

- ➔ DUC Undercut design provides consistent expansion and is easy to set. Stress risers have been eliminated to prevent tearing
- ➔ Large bearing area provides exceptional performance even in lower strength concrete
- ➔ Load transfers mainly through bearing, not expansion forces and is not dependent upon friction which can be lost when cracks occur
- ➔ Thick walled sleeves transfer load over a larger area which insures predictable ductile performance
- ➔ ASTM A36 or A193 grade B7 rods are used. Full ultimate steel strength of the threaded stud is developed at listed embedment and spacing. Stainless steel is also available
- ➔ Installation is simple. It is similar to installing a typical expansion anchor; no coring drills are necessary. Creation of proper undercut is correctly done and easily verified using DUC Undercut Bits. Creation of undercut takes only seconds
- ➔ **CODE REPORTS:** IBC, FL, LA



APPLICATIONS

- Structures where human safety is paramount
- Mounting motors, fans, gates, guard rails and machinery
- Steel fixtures, such as ladders and staircases
- Curtain walls and other cladding
- Shockproof connections



See detailed installation and design instructions at MiTek-US.com to ensure proper installation and to reduce risk failure which could result in injury and/or property damage. MiTek will not be liable for any anchor failure due to defective substrate material or improper installation

INSTALLATION

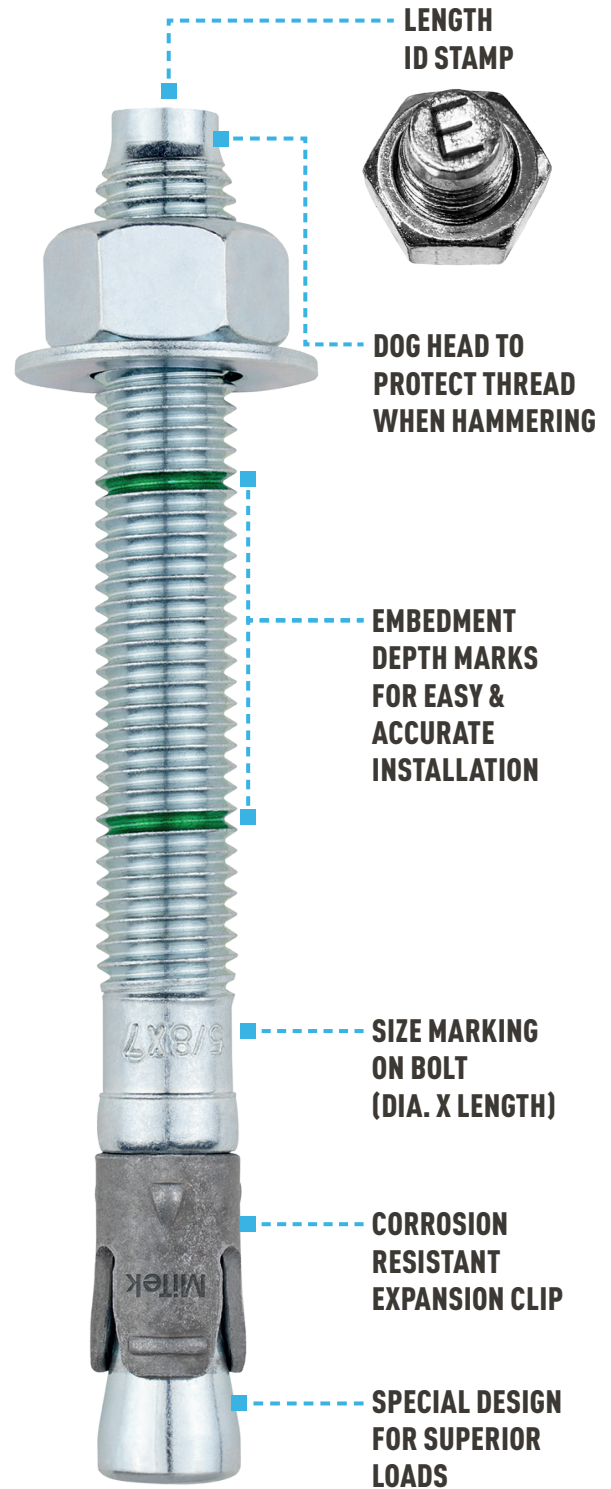
1. DRILL	2. CLEAN	3. UNDERCUT	4. CLEAN	5. EXPAND	6. VERIFY	7. TORQUE
Drill the hole to proper depth and diameter per specifications using rotohammer and stop drill.	Clean the hole using a blow-out bulb or compressed air.	Insert the undercut bit and start rotohammer. Undercutting is complete when the stopper sleeve is fully compressed (gap closed).	Clean the hole again using a blow-out bulb or compressed air.	Insert anchor into hole. Place setting sleeve over anchor and drive the expansion sleeve over the expansion coupling.	Verify that the setting mark is visible on the threaded rod above the sleeve.	Apply proper torque.

LOAD TABLE

MiTek Stock No.	Rod Dia. d_b (in)	Anchor Length l_b (in)	Expansion Coupling Dia. d_c (in)	Drilled Hole Depth of Stop Bit (in)	Effective Embedment h_{ef} (in)	Allowable Tensile Capacity (Lbs.)	Allowable Shear Capacity (Lbs.)
DUC38-275L	3/8	5-1/2	5/8	3-1/8	2-3/4	2280	2245
DUC38-275LT							
DUC38-400H		6-3/4		4-3/8	4	4910	4855
DUC38-400HT							
DUC12-400L	1/2	7	3/4	4-1/4	4	4170	4110
DUC12-400LT							
DUC12-500H		8		5-1/4	5	7365	8855
DUC12-500HT							
DUC12-675H	5/8	9-3/4	1	7	6-3/4	8990	14110
DUC12-675HT							
DUC58-450L		7-3/4		5	4-1/2	6290	
DUC58-450LT							
DUC58-750H	3/4	10-3/4	1-1/8	8	7-1/2	13530	14110
DUC58-750HT							
DUC58-900H		12-1/4		9-1/2	9	14315	
DUC58-900HT							
DUC34-500L	3/4	8-5/8	1-1/8	5-7/8	5	7365	9685
DUC34-500LT							
DUC34-1000H		13-5/8		10-7/8	10	20830	20875
DUC34-1000HT							

- 1) Allowable tensile and shear capacities are for anchors installed at standard edge distance and spacing in uncracked concrete in accordance with the 2018 IBC and referenced ACI documents.
- 2) See ICC-ES ESR-1970 for additional information.

- Embedment marks to ensure accurate installation depth. Most anchors have two embedment depth options
- Length ID code stamped on head of each anchor
- Unique anchor design allows for expansion clip re-engagement under tensile loading
- Code evaluated to IBC/IRC in accordance with ICC-ES AC193 and ACI 355.2 for cracked and uncracked concrete
- Approved for use in wind and seismic applications
- **CODE REPORTS:** IBC, FL, LA, UL (3/8" & 1/2" sizes)

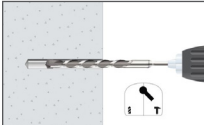

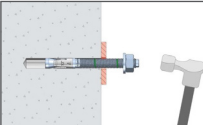
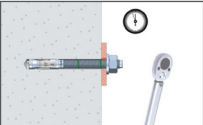


**MiTek[®] PRO
SERIES[™]**

APPLICATIONS

- Structural connections, i.e., beam and column anchorage
- Interior applications / low level corrosion environment
- Overhead applications, i.e., cable trays and strut, pipe supports, fire sprinklers
- Safety barriers
- Fixing billboards, boilers, signals, advertising hoardings, etc.
- Installation of sprinkler systems

INSTALLATION

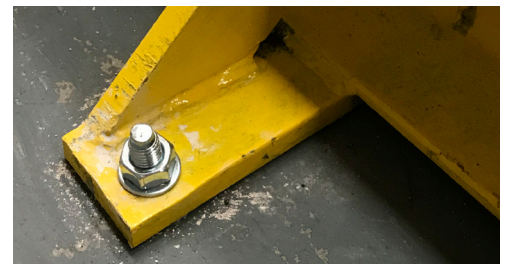
1. DRILL	2. BLOW & CLEAN	3. INSTALL	4. APPLY TORQUE
			

Drill a hole into the base material of the correct diameter and depth found in ICC-ES ESR-4298 using a drill bit that meets the requirements of ANSI B212.15-1994.

Remove dust and debris from hole using a blow bulb, compressed air or vacuum to remove the loose particles left from drilling.

Position the washer on the anchor and thread on the nut. If installing through a fixture drive the anchor through the fixture into the hole. Be sure the anchor is driven until the corresponding green mark depth is leveled with the base material surface.

Tighten the anchor with a torque wrench by applying the required installation torque found in ICC-ES ESR-4298. Note: the threaded stud will draw up during the tightening of the nut; the expansion wedge (clip) remains in the original position.



See detailed installation and design instructions at MiTek-US.com to ensure proper installation and to reduce risk failure which could result in injury and/or property damage. MiTek will not be liable for any anchor failure due to defective substrate material or improper installation

LOAD TABLE

Size (in)	MiTek Stock No.	Ref. No.	Length ID Stamp	Drill Bit Dia. (in)	Torque Wrench Size (in)	Minimum Anchor Embedment (in)	Required Installation Torque (ft-lbs)	Uncracked Concrete		Cracked Concrete		Ordering MiTek Stock No.	Pieces per Selling Unit	Selling Unit per Master Carton
								Allowable Tension (lbs)	Allowable Shear (lbs)	Allowable Tension (lbs)	Allowable Shear (lbs)			
1/4 x 2-1/4	WAC014214	STB2-25214	B	1/4	7/16	1-3/4	5	804	428	--	--	WAC014214-R10	10	6
												WAC014214-R25	25	4
												WAC014214-R100F	100	1
3/8 x 2-1/4	WAC038214	WA37214	B	3/8	9/16	1-5/8	30	865	1005	595	710	WAC038214-R15	15	6
												WAC038214-R50	50	3
												WAC038214-R50F	50	1
3/8 x 3	WAC038300	STB2-37300, WA37300	D	3/8	9/16	2-3/8	30	1745	1255	1200	1255	WAC038300-R25	25	4
												WAC038300-R50	50	3
												WAC038300-R50F	50	1
3/8 x 3-3/4	WAC038334	STB2-37334, WA37334	E	3/8	9/16	2-3/8	30	1745	1255	1200	1255	WAC038334-R15	15	6
												WAC038334-R50	50	3
												WAC038334-R40F	40	1
3/8 x 5	WAC038500	STB2-37500, WA37500	H	3/8	9/16	2-3/8	30	1745	1255	1200	1255	WAC038500-R15	15	4
												WAC038500-R30F	30	1
												WAC012234-R15	15	4
1/2 x 2-3/4	WAC012234	WA50234	C	1/2	3/4	2-3/8	45	1790	2030	1335	1435	WAC012234-R25F	25	1
												WAC012334-R25F	25	1

- 1) Example Allowable Stress Design (ASD) values include an approximate safety factor of 4.
- 2) Values based on single anchor installations and do not consider critical edge distance or spacing. For full design information on 3/8" and 1/2" dia. sizes, refer to ICC-ES ESR-4298.
- 3) Values in table assume concrete strength $f'_c = 4,000$ psi.
- 4) ASD values derived from the assumption of a single anchor with 30% dead load and 70% live load, and a controlling load combination of 1.2D+ 1.6L.
- 5) Values are for shear or tension only and do not work for a combination of such.

- Versatile use in medium-duty uncracked concrete applications
- Anti-spin raised point on sleeve for hassle free installation
- Through-fixture fastening
- Sleeve design keeps anchor centered in hole
- Drill hole conditions: Dry, Wet, Water Filled

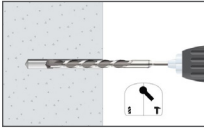
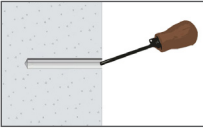
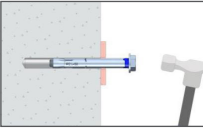
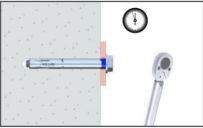


MiTek[®] PRO SERIES[™]

APPLICATIONS

- For static and quasi-static loads
- Interior applications / low level corrosion environment
- Non-structural applications in uncracked concrete
- For fixing shelves, panels, gates, railings
- Theater seating

INSTALLATION

1. DRILL	2. BLOW & CLEAN	3. INSTALL	4. APPLY TORQUE
			
Drill a hole into the base material of the correct diameter and depth using a drill bit that meets the requirements of ANSI B212.15-1994.	Remove dust and debris from hole using a blow bulb, compressed air or vacuum to remove the loose particles left from drilling.	Insert the anchor until the head is at the same level of the fixture surface. Use a hammer if needed. Installation must be performed through the fixture.	Apply the nominal torque specified in applicable tables. Use torque wrench in order to ensure correct installation.



See detailed installation and design instructions at MiTek-US.com to ensure proper installation and to reduce risk failure which could result in injury and/or property damage. MiTek will not be liable for any anchor failure due to defective substrate material or improper installation

LOAD TABLE

Size (in)	MiTek Stock No.	Ref. No.	Drill Bit Dia. (in)	Torque Wrench Size (in)	Minimum Anchor Embedment (in)	Minimum Edge Distance (in)	Required Installation Torque (ft-lbs)	Uncracked Concrete		Ordering MiTek Stock No.	Pieces per Selling Unit	Selling Unit per Master Carton
								Allowable Tension (lbs)	Allowable Shear (lbs)			
5/16 x 1-1/2	SAH516112	SL3112H	5/16	7/16	1-1/4	2-1/2	8	690	670	SAH516112-R100F	1	100
5/16 x 2-1/2	SAH516212	SL31212H	5/16	7/16	1-1/4	2-1/2	8	690	670	SAH516212-R100F	1	100
3/8 x 1-7/8	SAH038178	SL37178H	3/8	1/2	1-1/2	3	14	880	1100	SAH038178-R25	25	3
										SAH038178-R50F	1	50
3/8 x 3	SAH038300	SL37300H	3/8	1/2	1-1/2	3	14	880	1100	SAH038300-R50	50	3
										SAH038300-R50F	1	50
1/2 x 2-1/4	SAH012214	SL50214H	1/2	9/16	1-7/8	4	20	1145	1580	SAH012214-R25	25	3
										SAH012214-R40F	1	40
1/2 x 3	SAH012300	SL50300H	1/2	9/16	1-7/8	4	20	1145	1580	SAH012300-R10	10	6
										SAH012300-R25	25	3
1/2 x 4	SAH012400	SL50400H	1/2	9/16	1-7/8	4	20	1145	1580	SAH012400-R25	25	3
										SAH012400-R30F	1	30
5/8 x 4-1/4	SAH058414	SL62414H	5/8	3/4	2	5	48	1180	1580	SAH058414-R20F	1	20
5/8 x 6	SAH058600	SL62600H	5/8	3/4	2	5	48	1180	1580	SAH058600-R15F	1	15

1) Example Allowable Stress Design (ASD) values include an approximate safety factor of 4.

2) Values based on single anchor installations and do not consider critical edge distance or spacing. For full design information refer to MiTek-US.com.

3) Edge distance based on ACI318-14 section 17.7, designer shall verify distance is twice the maximum aggregate size and comply with section 20.6.1.

4) Values in table assume concrete strength $f'_c = 4,000$ psi.

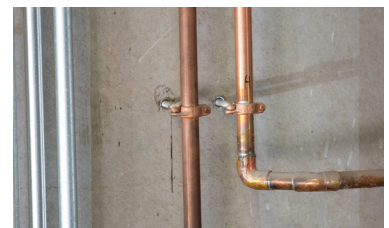
- Versatile use in medium-duty uncracked concrete applications
- Allows for installation prior to the material to be fixed
- Rod attachment may be removed leaving a smooth finish
- Simple installation with MiTek's setting tool



**MiTek[®] PRO
SERIES[™]**

APPLICATION

- Threaded rod attachment may be removed leaving a flush finish
- Fixing threaded rods
- Flush mounting applications



INSTALLATION

1. DRILL	2. BLOW & CLEAN	3. INSTALL	4. EXPAND ANCHOR	5. APPLY TORQUE

Drill a hole into the base material of the correct diameter and depth using a drill bit that meets the requirements of ANSI B212.15-1994.

Remove dust and debris from hole using a blow bulb, compressed air or vacuum to remove the loose particles left from drilling.

Insert the anchor in the hole completely. Use hammer if necessary. The anchor must not stand proud of the surface of the base material.

Insert the setting tool into the inner cone of the anchor. Hammer until the setting tool is level with the anchor.

Put the material to be fixed inserting the bolt or stud through holes. Use a bolt with the correct length. Wide washers are recommended. Do not introduce any materials between the material to be fixed and the washer (sealants, etc.). Apply the nominal torque using dynamic wrench.

See detailed installation and design instructions at MiTek-US.com to ensure proper installation and to reduce risk failure which could result in injury and/or property damage. MiTek will not be liable for any anchor failure due to defective substrate material or improper installation

LOAD TABLE

Size (in)	MiTek Stock No.	Ref. No.	Drill Bit Dia. (in)	Minimum Anchor Embedment (in)	Minimum Edge Distance (in)	Maximum Installation Torque (ft-lbs)	Uncracked Concrete	Ordering MiTek Stock No.	Pieces per Selling Unit	Selling Unit per Master Carton
							Allowable Tension (lbs)			
3/8 x 1-9/6	DIA0381916	DIAB37	1/2	1-9/16	5	12	978	DIA0381916-CR10	10	6
								DIA0381916-R100F	1	100
1/2 x 2	DIA012200	DIAB50	5/8	2	6-1/4	28	1482	DIA012200-CR10	10	6
								DIA012200-R75F	1	75

- 1) Example Allowable Stress Design (ASD) values include an approximate safety factor of 4.
- 2) Values based on single anchor installations and do not consider critical edge distance or spacing. For full design information refer to MiTek-US.com.
- 3) Edge distance based on ACI318-14 section 17.7, designer shall verify distance is twice the maximum aggregate size and comply with section 20.6.1.
- 4) Values in table assume concrete strength $f'_c = 4,000$ psi.

SETTING TOOL

Size (in)	MiTek Stock No.	Ref. No.	Ordering MiTek Stock No.	Pieces per Selling Unit	Selling Unit per Master Carton
3/8	DIAS38	DIAS37, DIABST37	DIAS38-R15F	1	15
1/2	DIAS12	DIAS50, DIABST50	DIAS12-R20F	1	20



SETTING TOOL
(MUST BE ORDERED SEPARATELY)

- ➞ Rod Hanger Anchor for temporary or permanent attachment to uncracked concrete
- ➞ No special drill bit required; install using standard-sized ANSI tolerance drill bits
- ➞ Fully removable for temporary anchoring or applications where fixtures may need to be moved
- ➞ Suitable for closer edge distance or tight spacing applications when compared to expansion anchor types
- ➞ Internally threaded to allow installation of threaded rod
- ➞ Installs with standard size sockets

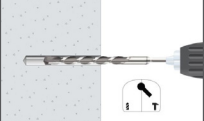

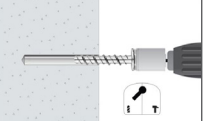
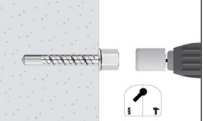


MiTek® PRO SERIES™

APPLICATIONS

- Fixing suspended ceilings, electrical conduit pipe or ventilation duct work
- Threaded rod attachment may be removed
- Fixing threaded rods

INSTALLATION

1. DRILL	2. BLOW & CLEAN	3. INSTALL	4. APPLY TORQUE
			
Drill a hole into the base material of the correct diameter and depth using a drill bit that meets the requirements of ANSI B212.15-1994.	Remove dust and debris from hole using a blow bulb, compressed air or vacuum to remove the loose particles left from drilling.	Attach an appropriate sized hex socket to the drill or wrench. Set drill to drill setting. Mount the screw anchor head in the socket.	Drive the anchor with an impact driver or a torque wrench into the hole until the anchor head washer comes in contact with the base material. The anchor must be snug after installation.



See detailed installation and design instructions at MiTek-US.com to ensure proper installation and to reduce risk failure which could result in injury and/or property damage. MiTek will not be liable for any anchor failure due to defective substrate material or improper installation

LOAD TABLE

Size (in)	MiTek Stock No.	Ref. No.	Drill Bit Dia. (in)	Threaded Rod Size (in)	Wrench Size (in)	Minimum Anchor Embedment (in)	Minimum Edge Distance (in)	Maximum Installation Torque (ft-lbs)	Uncracked Concrete	Ordering MiTek Stock No.	Pieces per Selling Unit	Selling Unit per Master Carton
									Allowable Tension (lbs)			
1/4 x 1-5/8	RHA014158	THD25112RHP1	1/4	1/4	3/8	1-5/8	1-1/2	20	618	RHA014158-R100F	1	100
3/8 x 1-5/8	RHA038158	THD37212HP1	1/4	3/8	1/2	1-5/8	1-1/2	20	618	RHA038158-R50F	1	50
1/2 x 2-3/4	RHA012234	THD50234HP1	5/16	1/2	11/16	2-3/4	1-7/8	25	1310	RHA012234-R30F	1	30

- 1) Example Allowable Stress Design (ASD) values include an approximate safety factor of 4.
- 2) Values based on single anchor installations and do not consider critical edge distance or spacing. For full design information refer to MiTek-US.com.
- 3) Edge distance based on ACI318-14 section 17.7, designer shall verify distance is twice the maximum aggregate size and comply with section 20.6.1.
- 4) Values in table assume concrete strength $f'c = 4,000$ psi.

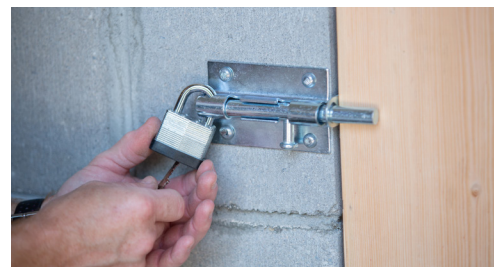
- Useful for light load requirements
- Fast and easy installation
- Mushroom head design
- No special drill bits required; installation using standard-sized ANSI tolerance drill bits
- For a variety of anchoring needs
- 1/4" diameter anchors are available in 3 lengths
- Permanent tamper-proof fastening



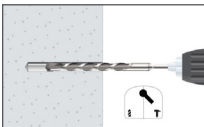

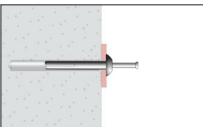
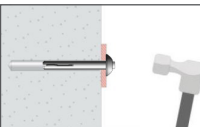
**MiTek[®] PRO
SERIES[™]**

APPLICATIONS

- Metal door frames and thresholds
- Interior electrical applications
- Light fixtures
- Window frame installations
- Hand rails
- Wood furring strip attachment



INSTALLATION

1. DRILL	2. BLOW & CLEAN	3. PLACE	4. SET
			
Drill a hole into the base material of the correct diameter and depth using a drill bit that meets the requirements of ANSI B21.15-1994.	Remove dust and debris from hole using a blow bulb, compressed air or vacuum to remove the loose particles left from drilling.	Place fastener through the hole in the fixture into the predrilled hole in the base material until the flat side of the head rest of the fixture.	Drive protruding nail with a hammer until it is flush with the cap of the anchor.



See detailed installation and design instructions at MiTek-US.com to ensure proper installation and to reduce risk failure which could result in injury and/or property damage. MiTek will not be liable for any anchor failure due to defective substrate material or improper installation

LOAD TABLE

Size (in)	MiTek Stock No.	Ref. No.	Drill Bit Dia. (in)	Minimum Anchor Embedment (in)	Minimum Edge Distance (in)	Uncracked Concrete		Ordering MiTek Stock No.	Pieces per Selling Unit	Selling Unit per Master Carton
						Allowable Tension (lbs)	Allowable Shear (lbs)			
1/4 x 1-1/2	HNA014112	--	1/4	3/4	2-1/2	275	255	HNA014112-CR15	15	6
				1	2-1/2	335	310	HNA014112-CR40	40	6
1/4 x 2	HNA014200	--	1/4	1-1/4	2-1/2	395	365	HNA014200-CR15	15	6
1/4 x 3	HNA014300	--	1/4	1-1/2	2-1/2	405	375	HNA014300-CR15	15	6
								HNA014300-CR25	25	6
								HNA014300-CR40	40	6

1) Example Allowable Stress Design (ASD) values include an approximate safety factor of 4.

2) Values based on single anchor installations and do not consider critical edge distance or spacing. For full design information refer to MiTek-US.com.

3) Edge distance based on ACI318-14 section 17.7, designer shall verify distance is twice the maximum aggregate size and comply with section 20.6.1.

4) Values in table assume concrete strength $f'_c = 4,000$ psi.

- ➔ For use in light-duty uncracked concrete applications
- ➔ Installation using standard ANSI tolerance drill bits
- ➔ Multiple head styles available for a majority of fixture anchoring needs
- ➔ Thread design allows for reduced installation torque and increased pullout performance
- ➔ White finish screws ideal for a discreet appearance

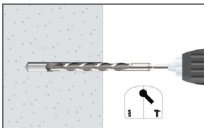

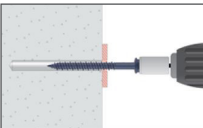
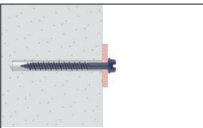


MiTek[®] PRO SERIES[™]

APPLICATIONS

- Metal door frames and thresholds
- Interior electrical applications
- Light fixtures
- Window frame installations
- Hand rails
- Wood furring strip attachment

INSTALLATION

1. DRILL	2. BLOW & CLEAN	3. SELECT SOCKET / BIT	4. INSTALL
			
Drill a hole into the base material of the correct diameter and depth using a drill bit that meets the requirements of ANSI B21.15-1994.	Remove dust and debris from hole using a blow bulb, compressed air or vacuum to remove the loose particles left from drilling.	Select the socket or Phillips bit to be used. Insert the head of the anchor into the hex head socket or Phillips head driver. Set the drill motor to the "rotation only" mode.	Place the point of the anchor through the fixture into the predrilled hole and drive the anchor in one steady continuous motion until it is fully seated on the fixture at the proper embedment. DO NOT OVERDRIVE.



See detailed installation and design instructions at MiTek-US.com to ensure proper installation and to reduce risk failure which could result in injury and/or property damage. MiTek will not be liable for any anchor failure due to defective substrate material or improper installation

LOAD TABLE

Size (in)	Head Style	Color	MiTek Stock No.	Ref. No.	Bit Size	Min. Anchor Embed. (in)	Min. Edge Distance (in)	Uncracked Concrete		Ordering MiTek Stock No.	Pieces per Selling Unit	Selling Unit per Master Carton
								Allowable Tension (lbs)	Allowable Shear (lbs)			
3/16 x 1-1/4	Phillips Flat	Blue	CSFP316114	TTN18114PF, TTN2-18114PF	#2	1-1/8	1-1/8	190	335	CSFP316114-CR8	8	8
										CSFP316114-CR25	25	6
										CSFP316114-CR75	75	6
										CSFP316114-R225	225	6
	Hex Slot	Blue	CSHS316114	TTN1814H, TTN2-18114H	1/4"	1-1/8	1-1/8	190	335	CSHS316114-CR8	8	8
										CSHS316114-CR75	75	6
3/16 x 1-3/4	Phillips Flat	Blue	CSFP316134	TTN18134PF, TTN2-18134PF	#2	1-5/8	1-1/8	425	350	CSFP316134-CR8	8	8
										CSFP316134-CR25	25	6
										CSFP316134-CR75	75	6
										CSFP316134-R225	225	6
	Hex Slot	White	CSFPW316134	TTNW18134PF, TTN2W18134PF	#2	1-5/8	1-1/8	425	350	CSFPW316134-CR75	75	6
										CSHS316134-CR75	75	6

1) Example Allowable Stress Design (ASD) values include an approximate safety factor of 4.

2) Values based on single anchor installations and do not consider critical edge distance or spacing. For full design information refer to MiTek-US.com.

3) Edge distance based on ACI318-14 section 17.7, designer shall verify distance is twice the maximum aggregate size and comply with section 20.6.1.

4) Values in table assume concrete strength $f'_c = 4,000$ psi.

NOTE: 3/16" diameter requires 5/32" drill bit.

CONTINUED ON NEXT PAGE →

LOAD TABLE

Size (in)	Head Style	Color	MiTek Stock No.	Ref. No.	Bit Size	Min. Anchor Embed. (in)	Min. Edge Distance (in)	Uncracked Concrete		Ordering MiTek Stock No.	Pieces per Selling Unit	Selling Unit per Master Carton
								Allowable Tension (lbs)	Allowable Shear (lbs)			
3/16 x 2-1/4	Phillips Flat	Blue	CSFP316214	TTN18214PF, TTN2-18214PF	#2	2	1-1/8	635	350	CSFP316214-CR8	8	8
										CSFP316214-CR25	25	6
										CSFP316214-CR75	75	6
										CSFP316214-R225	225	4
3/16 x 2-3/4	Phillips Flat	Blue	CSFP316234	TTN18234PF, TTN2-18234PF	#2	2	1-1/8	635	350	CSFP316234-CR8	8	8
										CSFP316234-CR25	25	6
										CSFP316234-CR75	75	6
										CSFP316234-R225	225	4
	Hex Slot	White	CSFPW316234	TTNW18234PF, TTN2W18234PF	#2	2	1-1/8	635	350	CSFPW316234-CR25	25	6
										CSFPW316234-CR75	75	6
										CSHS316234-CR25	25	6
										CSHS316234-CR75	75	6
3/16 x 3-1/4	Phillips Flat	Blue	CSFP316314	TTN18314PF, TTN2-18314PF	#2	2	1-1/8	635	350	CSFP316314-CR8	8	8
										CSFP316314-CR75	75	6
1/4 x 1-1/4	Phillips Flat	Blue	CSFP014114	TTN25114PF, TTN2-25114PF	#3	1-1/8	1-1/2	200	365	CSFP014114-CR8	8	8
										CSHS014114-CR8	8	8
	Hex Slot	Blue	CSHS014114	TTN2-25114H	5/16"	1-1/8	1-1/2	200	365	CSHS014114-CR75	75	6
										CSHS014114-R225	225	6
1/4 x 1-3/4	Phillips Flat	Blue	CSFP014134	TTN25134PF, TTN2-25134PF	#3	1-5/8	1-1/2	480	585	CSFP014134-CR8	8	8
										CSFP014134-CR25	25	6
										CSFP014134-CR75	75	6
										CSFPW014134-CR8	8	8
	Hex Slot	White	CSFPW014134	--	#3	1-5/8	1-1/2	480	585	CSHS014134-CR8	8	8
										CSHS014134-CR75	75	6
										CSHS014134-R225	225	4
										CSFP014214-CR8	8	8
1/4 x 2-1/4	Phillips Flat	Blue	CSFP014214	TTN25214PF, TTN2-25214PF	#3	2-1/8	1-1/2	815	585	CSFP014214-CR75	75	6
										CSHS014214-CR8	8	8
	Hex Slot	Blue	CSHS014214	TTN25214H, TTN2-25214H	5/16"	2-1/8	1-1/2	815	585	CSHS014214-CR75	75	6
										CSFP014234-CR8	8	8
1/4 x 2-3/4	Phillips Flat	Blue	CSFP014234	TTN25234PF, TTN2-25234PF	#3	2-1/8	1-1/2	815	585	CSFP014234-CR25	25	6
										CSFP014234-CR75	75	6
										CSFP014234-R150	150	4
										CSFPW014234-CR8	8	8
	Hex Slot	White	CSFPW014234	TTNW25234PF, TTN2W25234PF	#3	2-1/8	1-1/2	815	585	CSFPW014234-CR75	75	6
										CSHS014234-CR8	8	8
										CSHS014234-CR25	25	6
										CSHS014234-CR75	75	6
	Hex Slot	Blue	CSHS014234	TTN25234H, TTN2-25234H	5/16"	2-1/8	1-1/2	815	585	CSHS014234-R150	150	4

1) Example Allowable Stress Design (ASD) values include an approximate safety factor of 4.

2) Values based on single anchor installations and do not consider critical edge distance or spacing. For full design information refer to MiTek-US.com.

3) Edge distance based on ACI318-14 section 17.7, designer shall verify distance is twice the maximum aggregate size and comply with section 20.6.1.

4) Values in table assume concrete strength $f'_c = 4,000$ psi.

NOTE: 3/16" diameter requires 5/32" drill bit; 1/4" diameter requires 3/16" drill bit.

CONTINUED ON NEXT PAGE →

LOAD TABLE

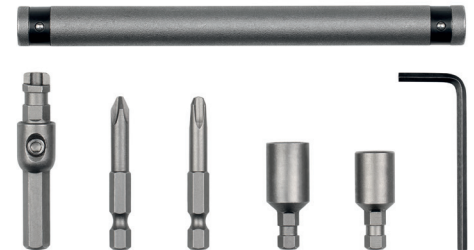
Size (in)	Head Style	Color	MiTek Stock No.	Ref. No.	Phillips Bit	Min. Anchor Embed. (in)	Min. Edge Distance (in)	Uncracked Concrete		Ordering MiTek Stock No.	Pieces per Selling Unit	Selling Unit per Master Carton
								Allowable Tension (lbs)	Allowable Shear (lbs)			
1/4 x 3-1/4	Phillips Flat	White	CSFPW014314	TTNW25314PF, TTN2W25314PF	#3	2-1/8	1-1/2	815	585	CSFPW014314-CR75	75	6
	Hex Slot	Blue	CSHS014314	TTN25314H, TTN2-25314H	5/16"	2-1/8	1-1/2	815	585	CSHS014314-CR8	8	8
1/4 x 3-3/4	Phillips Flat	Blue	CSFP014334	TTN25334PF, TTN2-25334PF	#3	2-1/8	1-1/2	815	585	CSFP014334-CR8	8	6
										CSFP014334-CR25	25	6
										CSFP014334-CR75	75	6
	Hex Slot	Blue	CSHS014334	TTN25334H, TTN2-25334H	5/16"	2-1/8	1-1/2	815	585	CSHS014334-CR8	8	6
										CSHS014334-CR75	75	6
										CSFP014334-CR75	75	6
1/4 x 4	Phillips Flat	Blue	CSFP014400	TTN25400PF, TTN2-25400PF	#3	2-1/8	1-1/2	815	585	CSFP014400-CR8	8	6
	Hex Slot	Blue	CSHS014400	TTN25400H, TTN2-25400H	5/16"	2-1/8	1-1/2	815	585	CSHS014400-CR25	25	6
1/4 x 5	Hex Slot	Blue	CSHS014500	TTN25500H, TTN2-25500H	5/16"	2-1/8	1-1/2	815	585	CSHS014500-CR25	25	6

- 1) Example Allowable Stress Design (ASD) values include an approximate safety factor of 4.
 2) Values based on single anchor installations and do not consider critical edge distance or spacing. For full design information refer to MiTek-US.com.
 3) Edge distance based on ACI318-14 section 17.7, designer shall verify distance is twice the maximum aggregate size and comply with section 20.6.1.
 4) Values in table assume concrete strength $f'_c = 4,000$ psi.
NOTE: 1/4" diameter requires 3/16" drill bit.

CONCRETE SCREW INSTALLATION KIT (CSKT-6)

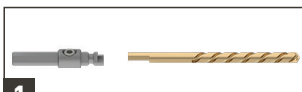
- ➡ Rapid Change drill bit and drive tool
- ➡ Combination drill bit with slide over driver extension for quick work
- ➡ Works with any hammer drill

Screw Dia. (in)	Drill Bit Dia. (in)	Hex Bit (in)	Phillips Bit
3/16	5/32	1/4	#2
1/4	3/16	5/16	#3

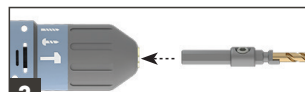


KIT INCLUDES: Driver Sleeve / Drill Bit Adapter / #2 and #3 Phillips Bits / 1/4" and 5/16" Hex Drivers / Hex Key / Carry Pouch

INSTALLATION



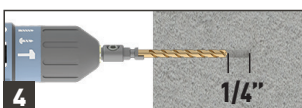
Place the correct MiTek® drill bit in drill adapter and tighten set with included hex key.



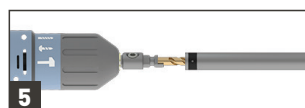
Secure drill adapter into 3/8"-1/2" chuck of hammer drill.



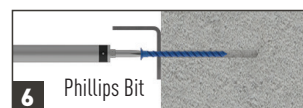
Attach desired Hex or Phillips bit into end of sleeve.



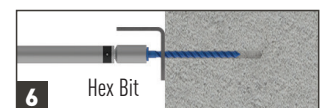
Drill hole 1/4" deeper than depth of anchor embedment and clean dust from hole.



Connect driver sleeve over drill bit and secure onto drill adapter.

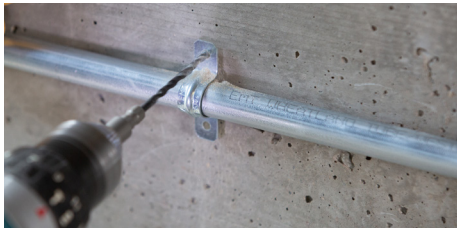


With the appropriately attached bit drive the MiTek screw into the predrilled hole.



With the appropriately attached bit drive the MiTek screw into the predrilled hole.

- Standardized shank types for attachment to common drills
- Carbide tip allows for higher quantity of holes per drill bit
- Complies with ANSI B212.15-1994


**STRAIGHT
SHANK**

**HEX
SHANK
SDS
PLUS**


Drill Bit Dia. (in) ^{1,2}	Overall Length (in)	MiTek Stock No.	Shank Type	Drilling Depth (in)	Pieces per Selling Unit	Selling Unit per Master Carton
5/32	3-1/2	ADBC532312-DC1	Straight shank	2-1/8	1	15
	4-1/2	ADBC532412-DC1	Straight shank	2-7/8	1	15
		ADBC532412-DC4	Straight shank	2-7/8	4	15
	5-1/2	ADBC532512-DC1	Straight shank	3-3/8	1	15
	7	ADBSDS5327000-DC1	HEX shank SDS plus	3-3/8	1	25
3/16	4-1/2	ADBC316412-DC1	Straight shank	2-7/8	1	15
		ADBC316412-DC4	Straight shank	2-7/8	4	15
	7	ADBSDS3167000-DC1	HEX shank SDS plus	3-3/8	1	25
1/4	7	ADBSDS0147000-DC1	HEX shank SDS plus	3-3/8	1	25
3/8	8	ADBSDS0388000-DC1	SDS plus	5-1/4	1	15
1/2	10	ADBSDS0121000-DC1	SDS plus	6-3/4	1	15
5/8	10	ADBS0581000-DC1	SDS plus	6-3/4	1	15

1) 5/32" dia. drill bit/driver suitable for 3/16" dia. MiTek CSHS concrete screw.

2) 3/16" dia. drill bit/driver suitable for 1/4" dia. MiTek CSHS concrete screw.

MiTek[®] PRO SERIES™

- ➞ Continuously threaded low carbon steel rod may be used for anchoring MiTek's holdowns, tension ties and wood structural panel shear walls to concrete
- ➞ Can be used for many other general purpose tension transfer fastening needs

INSTALLATION

ATR All Thread Rod can be cast-in-place or epoxied into concrete. Use MiTek's CIA-EA epoxy acrylate or CIA-GEL 7000-C epoxy when installed as a post installed application and follow the published installation instructions to obtain maximum strength. Use CIA-GEL 7000 when installing into fully grouted CMU block wall.



Dia. x L (in)	Plain	Zinc Plated	Dia. x L (in)	Plain	Zinc Plated
	MiTek Stock No.	MiTek Stock No.		MiTek Stock No.	MiTek Stock No.
3/8 x 5	ATR385	ATR385-ZP	3/4 x 5	ATR345	ATR345-ZP
3/8 x 8	ATR388	ATR388-ZP	3/4 x 8	ATR348	ATR348-ZP
3/8 x 10	ATR3810	ATR3810-ZP	3/4 x 10	ATR3410	ATR3410-ZP
3/8 x 12	ATR3812	ATR3812-ZP	3/4 x 12	ATR3412	ATR3412-ZP
3/8 x 16	ATR3816	ATR3816-ZP	3/4 x 16	ATR3416	ATR3416-ZP
3/8 x 18	ATR3818	ATR3818-ZP	3/4 x 18	ATR3418	ATR3418-ZP
3/8 x 24	ATR3824	ATR3824-ZP	3/4 x 24	ATR3424	ATR3424-ZP
3/8 x 36	ATR3836	ATR3836-ZP	3/4 x 36	ATR3436	ATR3436-ZP
3/8 x 48	ATR3848	ATR3848-ZP	3/4 x 48	ATR3448	ATR3448-ZP
3/8 x 72	ATR3872	--	3/4 x 72	ATR3472	--
1/2 x 5	ATR125	ATR125-ZP	7/8 x 5	ATR785	ATR785-ZP
1/2 x 8	ATR128	ATR128-ZP	7/8 x 8	ATR788	ATR788-ZP
1/2 x 10	ATR1210	ATR1210-ZP	7/8 x 10	ATR7810	ATR7810-ZP
1/2 x 12	ATR1212	ATR1212-ZP	7/8 x 12	ATR7812	ATR7812-ZP
1/2 x 16	ATR1216	ATR1216-ZP	7/8 x 16	ATR7816	ATR7816-ZP
1/2 x 18	ATR1218	ATR1218-ZP	7/8 x 18	ATR7818	ATR7818-ZP
1/2 x 24	ATR1224	ATR1224-ZP	7/8 x 24	ATR7824	ATR7824-ZP
1/2 x 36	ATR1236	ATR1236-ZP	7/8 x 36	ATR7836	ATR7836-ZP
1/2 x 48	ATR1248	ATR1248-ZP	7/8 x 48	ATR7848	ATR7848-ZP
1/2 x 72	ATR1272	--	7/8 x 72	ATR7872	--
5/8 x 5	ATR585	ATR585-ZP	1 x 5	ATR15	ATR15-ZP
5/8 x 8	ATR588	ATR588-ZP	1 x 8	ATR18	ATR18-ZP
5/8 x 10	ATR5810	ATR5810-ZP	1 x 10	ATR110	ATR110-ZP
5/8 x 12	ATR5812	ATR5812-ZP	1 x 12	ATR112	ATR112-ZP
5/8 x 16	ATR5816	ATR5816-ZP	1 x 16	ATR116	ATR116-ZP
5/8 x 18	ATR5818	ATR5818-ZP	1 x 18	ATR118	ATR118-ZP
5/8 x 24	ATR5824	ATR5824-ZP	1 x 24	ATR124	ATR124-ZP
5/8 x 36	ATR5836	ATR5836-ZP	1 x 36	ATR136	ATR136-ZP
5/8 x 48	ATR5848	ATR5848-ZP	1 x 48	ATR148	ATR148-ZP
5/8 x 72	ATR5872	--	1 x 72	ATR172	--
3/4 x 5	ATR345	ATR345-ZP	1-1/8 x 5	ATR1185	ATR1185-ZP
3/4 x 8	ATR348	ATR348-ZP	1-1/8 x 8	ATR1188	ATR1188-ZP
3/4 x 10	ATR3410	ATR3410-ZP	1-1/8 x 10	ATR11810	ATR11810-ZP
3/4 x 12	ATR3412	ATR3412-ZP	1-1/8 x 12	ATR11812	ATR11812-ZP
3/4 x 16	ATR3416	ATR3416-ZP	1-1/8 x 16	ATR11816	ATR11816-ZP
3/4 x 18	ATR3418	ATR3418-ZP	1-1/8 x 18	ATR11818	ATR11818-ZP
3/4 x 24	ATR3424	ATR3424-ZP	1-1/8 x 24	ATR11824	ATR11824-ZP
3/4 x 36	ATR3436	ATR3436-ZP	1-1/8 x 36	ATR11836	ATR11836-ZP
3/4 x 48	ATR3448	ATR3448-ZP	1-1/8 x 48	ATR11848	ATR11848-ZP
3/4 x 72	ATR3472	--	1-1/8 x 72	ATR11872	--

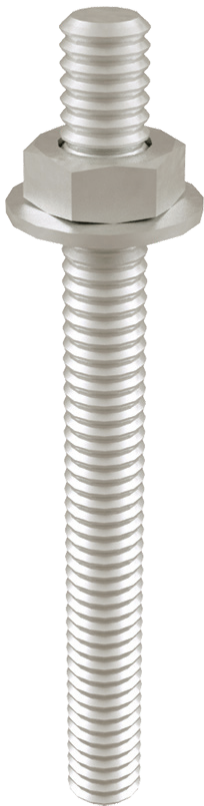
- Secures 2x sill plate to the foundation using epoxied threaded rods
- Provides accurate location and alignment of the rod and eliminates the need to coordinate cast-in-place anchor rods
- ASTM A36 hot-dip galvanized threaded rod can be ordered in 1/2" or 5/8" diameters
- 5/8" diameter rod is available in two (2) lengths for anchor applications involving lighter uplift loads
- Nuts and washers are included

INSTALLATION

Install into wet concrete with nut embedded or drill minimum 1/16" – 1/8" oversized hole depending on rod size and secure with anchor epoxy.

MiT ek Stock No.	Bolt Dia.	L (in)
Sill Plate Application		
THR125-HDG	1/2	5
THR126-HDG	1/2	6
THR128-HDG	1/2	8
THR588-HDG	5/8	8
Uplift Application¹		
THR5812-HDG	5/8	12
THR5816-HDG	5/8	16

1) Contact MiTek for appropriate embedment length for your application.



MECHANICAL ANCHOR PRODUCT COMPARISON

This Product Comparison Chart is intended for general guidance only and should not be used as the only basis to substitute specified products without verification.

Type	MiTek Series	Simpson		DeWalt / Powers			Red Head	
Screw Anchor	SACH, SACH-EXT	Titan HD		Screw Bolt+			Large Diameter Tapcon (LDT) Anchor	
Wedge Anchor	WAC	Strong-Bolt 2	Wedge-All	Domestic Wedge Anchor	Power-Stud SD1	Power-Stud SD2	Trubolt	Trubolt+
Sleeve Anchor	SAH	Sleeve-All		LOK-BOLT AS		Power Bolt +	DynaBolt	
Drop-In Anchor	DIA	DIA	DIAB	Steel Dropin			Multi-Set II	
Concrete Screw	CSHS, CSFP, CSFPW	Titen	Titen 2	ULTRACON +		Tapper +	Tapcon	
Drive Pin Anchor	HNA	Zinc Nailon		Zamac Nailin			Hammerset	
Rod Hanger Anchor	RHA	Titen HD Threaded Rod Hanger		Rod Hanger Lok-Bolt As		Hangermate+	--	
Anchor Drill Bits	ADBC, ADBSD	MDPL	MDB	DW			Tapcon Red Head Masonry Drill Bits	

EPOXY PRODUCT COMPARISON

This Product Comparison Chart is intended for general guidance only and should not be used as the only basis to substitute specified products without verification.

	MiTek EPOXY	SIMPSON	REDHEAD	POWERS	HILTI
Cracked Concrete	 CIA-GEL 7000-C	 SET-XP / ET-HP / AT-XP	 G5 / S7	 PE1000+ / Pure110 AC100+	 HY 200 / RE 500-SD
Masonry	 CIA-GEL 7000	 SET / AT-XP / AT	 A7 / C6	 Pure50+	 HY 70 / HY 150
DOT & General Purpose	 CIA-GEL 6000-GP	 EDOT	 C6	 AC50 Silver	 HFX
Uncracked Concrete	 CIA-EA	 AT	N/A	 T308+	 HY 100 / HY 150

RETURNS:

Materials returned for credit or exchange will be accepted only under the following conditions:

1. Only full cartons of products may be returned.
2. All returns must be in saleable conditions.
3. Materials must be current, cataloged, under warranty and purchased within 90 days of return. Returning materials for credit or exchange are subject to a minimum restocking charge of 15% if returned within 30 days of purchase and 25% if returned between 30 and 90 days after purchase. The restocking charge may be increased, in the sole discretion of MiTek, to include other fees incurred by MiTek in connection with the return, such as any fees incurred in repackaging the materials or in both cases plus any freight expenses originally incurred by MiTek in the delivery of said materials.
4. Any returned epoxies or adhesives must have a minimum of 12 months remaining shelf life at time of the return.
5. Customer must provide the invoices that reflect the price and amount of products to be returned. Prior to returning any product to MiTek, Customer must obtain MiTek approval and a return goods authorization number from MiTek. Freight carrier and routing must also be approved by MiTek.
6. Materials received by MiTek without prior approval and authorization number will be returned, freight collect, to the Customer. Return goods authorization number must be printed on outer carton.
7. All transportation charges must be paid by Customer. If MiTek determines the product to be defective, Customer's account will be credited, including the appropriate freight charges.

Specials, custom orders and discontinued products, defined at the sole discretion of MiTek, cannot be returned. CIA-GEL 7000 products may not be returned. Epoxy and Adhesive Products are not eligible for inventory re-balancing options.

DISCLAIMERS/WARRANTY:

MiTek warrants to the Buyer that this product is in good quality and conforms to the manufacturer's specifications in force on the date of manufacture and when used in accordance with the Manufacturers Published Installation Instructions (MPII's) and when stored as directed in the technical literature. Manufacturer cannot warrant or guarantee any particular method of use, performance or application under any particular condition and Buyer is responsible for determining the suitability of intended purpose and assumes all risks therein. MiTek shall not be liable for any injury, loss, cost of labor or consequential damages either directly, indirectly or incidentally arising out of the use or misuse of any product sold by MiTek or another distributor. If the product is proven to be in nonconformance, the Buyers sole remedy shall be a refund of the purchase price or replacement of product.



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