

ANCHOR

STEEL ANCHOR / PLASTIC ANCHOR / ZINC ALLOY ANCHOR

Professional Manufacturer. Universal Service. Customer Satisfaction



Anchor Fasteners Industrial Co., Ltd.



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QUALITY POLICY

Since Anchor Fasteners started supplying professional products in 1986, we have met our customers' expectations with quality and reliability.

We understand that even a minor defect in our product may become a potential risk to users and cause loss of our customers' profits and resources. That is why each and every employee at our company is highly concerned with providing reliable products and services. From manufacturing, delivery, to customer service, the entire process is managed under Quality Control System to make sure we fulfill our customers' demand and requirements in a precise and timely manner.

Our effort has been awarded with registration of TS 16949, ISO 14064, ISO 9001, ISO 14001, TAF Quality Assurance System. In addition to several patents and trademarks, our Taiwan factory is registered by UL, CE, ETA, and qualified by FM, and ICBO, both of which allow us to be a OEM, ODM, and OBM cooperative manufacturer.

Our goal is to obtain more quality recognitions such as German IFBS product certifications in an effort to compete in developed countries and achieve globalization.



ISO-14064



TS-16949



ISO 9001



ISO 14001



TAF

APPLICATION ATTENTIONS OF ANCHORS & FIXING

- According to the strength of concrete or solid masonry, diameter of anchorbolt and depth of embedment, the pull out load will be modified.
- **Drill:** The holding power of any anchor is directly related to the diameter of the embedment hole. So it is important to use the right size of embedment hole. Inappropriate size may cause unexpected results. The drill carbide bits must be of the correct diameter for the respective anchor hole diameter. In general, carbide bits conforming to the following will produce acceptable hole diameters:

Metric System:
ISO 5468 and DIN 8035

Nominal Dia.	Min. Dia.	Max. Dia.
mm	mm	mm
6	6.12	6.30
8	8.15	8.36
10	10.15	10.36
12	12.18	12.43
14	14.18	14.43
16	16.30	16.61
18	18.30	18.61
20	20.30	20.61
24	24.30	24.61
26	26.30	26.61

Inch System:
ANSI B94-12-1977

Nominal Dia.	Tolerance Band	Nominal Dia.	Tolerance Band
3/16	.206-.198	5/8	.660-.650
1/4	.268-.260	11/16	.723-.713
5/16	.335-.327	3/4	.787-.775
3/8	.398-.390	7/8	.917-.905
7/16	.468-.458	1	1.042-1.030
1/2	.530-.520	1-1/8	1.175-1.160
9/16	.592-.582	1-1/4	1.300-1.285

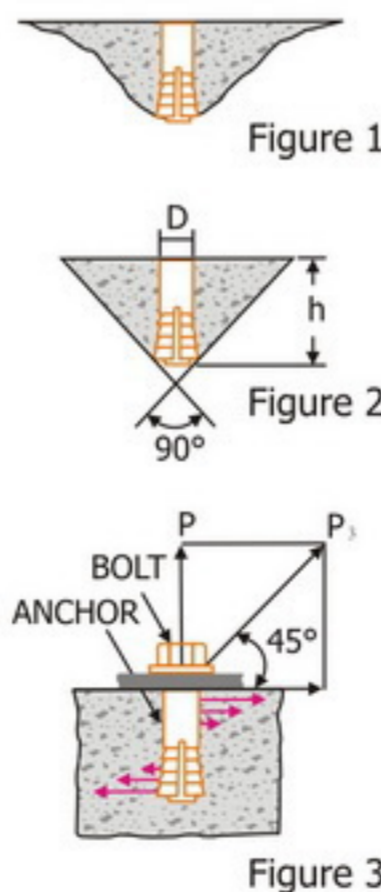
- The general rule of spacing and edge distance requirement for mechanically expanded anchors are as follows:
 - * The anchor diameter between edge.
 - * Two times anchor embedment between spacing. If vibration or impact is applied, spacing should be increased.
- Working Loads of Anchor Bolt
The max. pull out load (stated values) is measured under the condition of the anchor bolt is broken and pulled out from concrete or solid masonry. So, a safe working load should not exceed 25-30% of max. stated values.

THE CALCULATION OF ANCHOR BOLT STRENGTH

Under the application of anchor bolt, when the anchor bolt is being loaded it will cause some peeling of concrete. We can find out the calculated values and the experiment measuring values are the same. A 90° head angle anchor bolt (Fig. 1), the calculations are as followings:

A) Anchor Bolt Tensile Force

- 1) $S = \sqrt{2} \times \pi \times h \times (h+D)$1
S: Side surface area of cone head(cm²)
H: Embedded depth(cm)
D: Outer dia. Of anchor bolt(cm)
- 2) $F_t = 1/10 F_c$2
F_t: Concrete tensile forces
h: Embedded depth (cm)
F_c: Concrete compression forces
- 3) $P(\text{kg}) = S(\text{cm}^2) \times F_t(\text{kgf}/\text{cm}^2)$
 $= \sqrt{2} \times \pi \times h \times (h+D) \times F_c/10$3
P: Anchor bolt tensile force



Example of the calculation:

1. Cut Anchor bolt CAW-20 (W3/8)
2. Embedded in 250 kg/cm² strength grade concrete
 - 1) $S = \sqrt{2} \times \pi \times 4 \times (4+1.4) \approx 95.96 \text{ cm}^2$
embeded+depth(cm) O.D. of anchor bolt
 - 2). $F_t = \frac{250}{10} \approx 25 \text{ kgf/cm}^2$
Concrete strength
 - 3). $P = S \times F_t = 95.96 \times 25 = 2399 \text{ kgs}$

B) Calculation of Combination Force

Relationship of embedded anchor bolt and shear tensile is as Fig. 3. When the anchor is pulled out in a 45° force, we can find the upper portion of the anchor bolt produces shear tensile and the lower portion produces an opposite force that a bending force is observed. So we can find:

$P_s(\text{kgf}) = \sqrt{2} \times P(\text{kgf})$ P_s:Combination force P : Anchor bolt tensile force

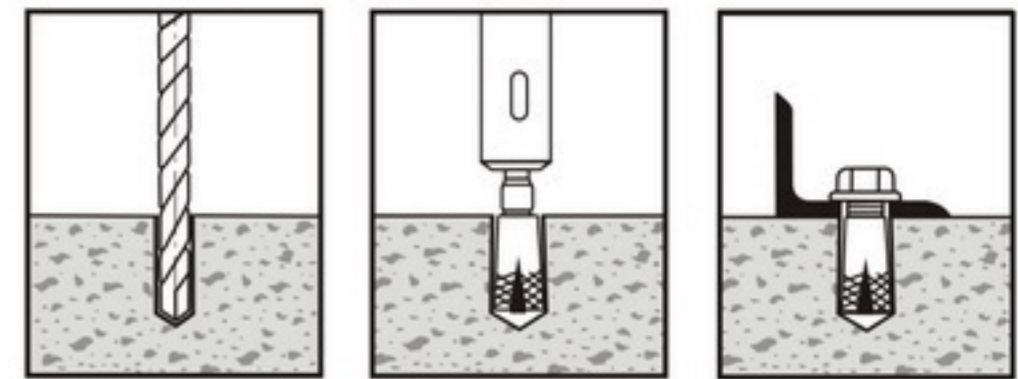


DROP IN ANCHORS

- Perfect expansion and specially designed built-in plug ensures full expansion of anchor.
- The test values listed beneath were obtained using 4000 psi Concrete (no aggregated). A safe working load should not exceed 25% of stated values.



■ TYPE A



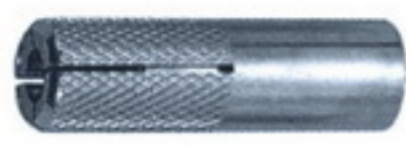
Drill a hole.

Use a setting tool & a hammer to drive plug in.

Anchor is set with bolt.



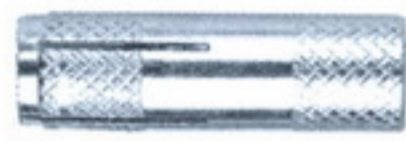
■ TYPE B



■ TYPE D



■ TYPE G



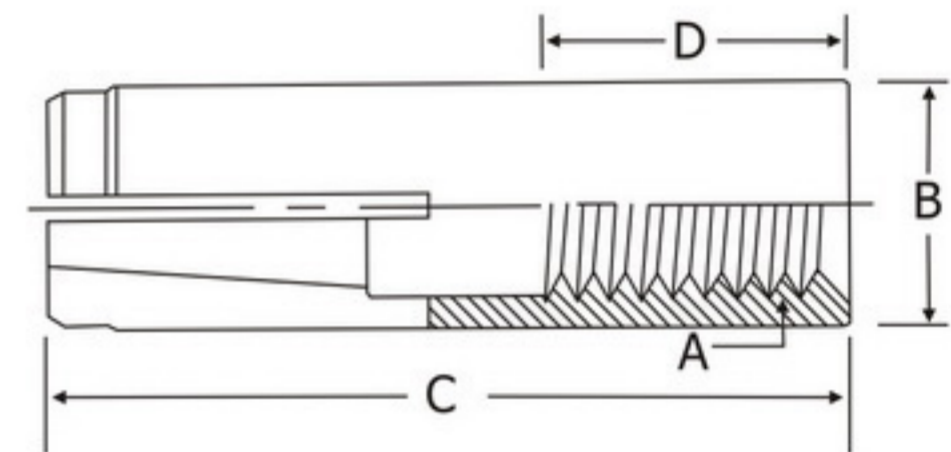
■ TYPE C



■ TYPE F



■ TYPE H



Order Code	Thread Size (A)	Anchor Dia. (B)	Anchor Length (C)	Thread Depth (D)	Pull Out Load (kg)	Qty.per Box/Ctn.	Weight Kgs/1000pcs	Number Setting Tool
DRIB-20	1/4-20	3/8	1	1/2	981	100/2000	11.0	DIT-14
DRIA-30	3/8-16	1/2	1-9/16	5/8	1800	50/1000	28.0	DIT-38
(DRIA-20H) (DRIA-30H)	(3/8-16)	(1/2)	(3/4)	(3/8)	(903)	(100/400)	(11.0)	
DRIA-40	1/2-13	5/8	2	3/4	2836	50/500	54.0	DIT-12
DRIA-50	5/8-11	7/8	2-1/2	7/8	3945	25/200	141.0	DIT-58
DRIA-60	3/4-10	1	3-1/8	1-1/4	5000	25/150	227.0	DIT-34
		(mm)	(mm)	(mm)				
DRMB-06 (DRVB-20)	M6 (W1/4)	8.0	25	10	700	100/2000	6.3	DMT-06
DRMB-08 (DRVB-25)	M8 (W5/16)	10.0	30	14	1100	100/2000	12.5	DMT-08
DRMA-10 (DRVA-30) (DRVH-30H)	M10 (W3/8) (W3/8)	12.0 (12.0)	40 (30)	15 (11)	1700 (1000)	50/1000 (100/1000)	25.0 (15.5)	DMT-10
DRMA-12 (DRVA-40)	M12 (W1/2)	16.0	50	20	2700	50/500	51.0	DMT-12
DRMA-16 (DRVA-50)	M16 (W5/8)	20.0	65	25	3200	25/200	112.0	DMT-16
DRMA-20 (DRVA-60)	M20 (W3/4)	25.0	80	35	4309	25/150	235.0	DMT-20

Special coating, stainless steel and special lengths are available.

CUT ANCHORS

- CUT ANCHOR is an improved expansion Anchor with internal thread and a plug, and is the most popular Anchor.
- Anchor can be installed with Hex Bolt, Stud and Hook bolt, etc. After installation, concrete will not be affected in appearance as a rise on the surface.
- The test values listed beneath were obtained using 4000 psi Concrete (No aggregate). A safe working load should not exceed 25% of stated values.



■ TYPE G



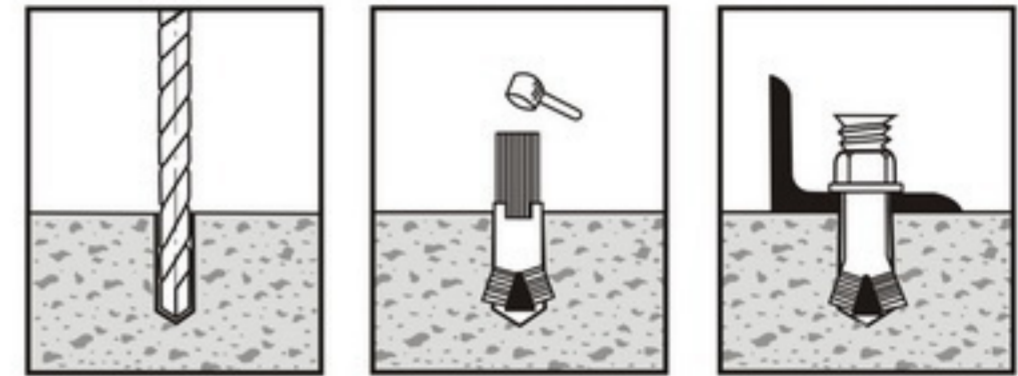
■ TYPE B



■ TYPE E



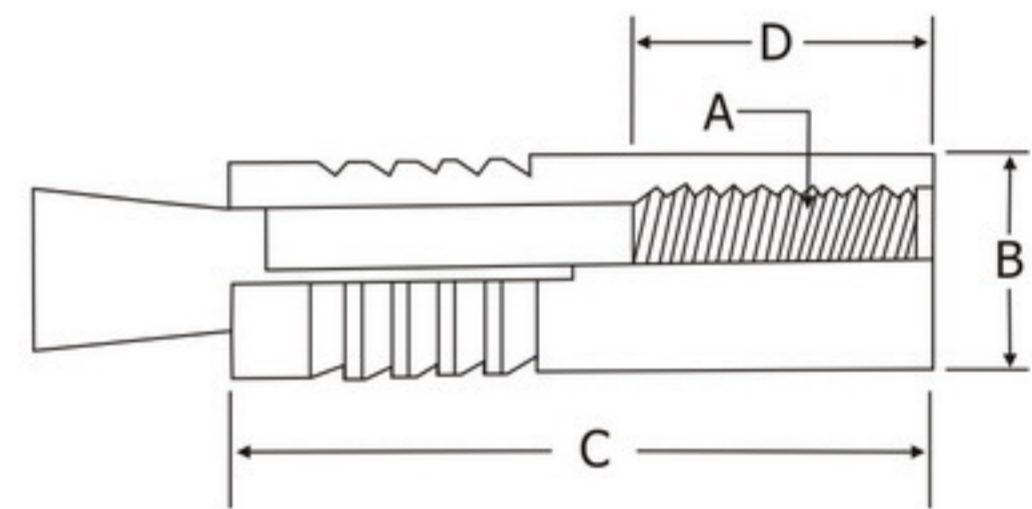
■ TYPE D



Drill a hole.

Use a setting tool & a hammer to drive plug in.

Anchor is set with bolt.



Order Code	Anchor Size (A)	Anchor Dia. (B)	Anchor Length (C)	Tread Length (D)	Bolt Thread Fit Length	Drill Dia.	Pull Out Load (kg)
CAM-06 (CAV-20)	M6 W1/4	11.0	30	9	8	11.5	800
CAM-08 (CAV-25)	M8 W5/16	12.0	35	12	10	12.5	1848
CAM-10 (CAV-30)	M10 W3/8	14.0	40	14	12	14.5	2000
		12	40	14	12	12.5	1600
CAM-12 (CAV-40)	M12 W1/2	17.5	52	20	16	18.0	3000
CAM-16 (CAV-50)	M16 W5/8	21.5	63	24	20	22.0	5180
CAM-20 (CAV-60)	M20 W3/4	25.5	83	31	25	26.0	5500

WELD STYLE



Order Code	Anchor Size (A)	Anchor Length (C)	Drill Dia.	Pull Out Load (kg)
CAM-10	10	40.45	10.5	700
	10	50.55.60.70		1200
	10	80.100	10.5	1290

Stainless steel and special lengths are available.

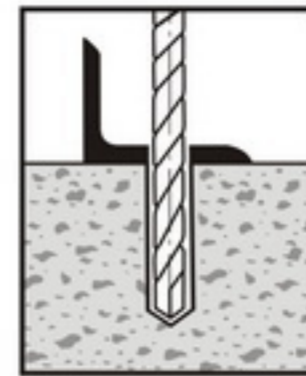


SLEEVE ANCHORS

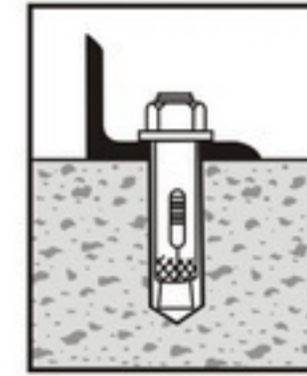
- Pre-assembled for quick and easy installation, can be used in thin sections of concrete or solid masonry.
- Head styles for every application.
- The test values listed below were obtained using 4000 psi/ concrete (no aggregate). A safe working load should not exceed 25% stated values.



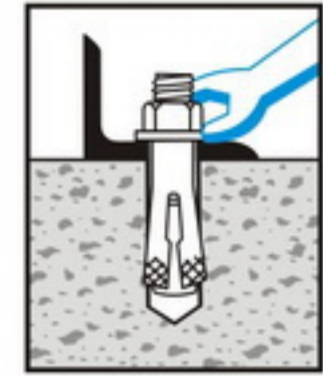
■ Hex Nut (HN)



Using a diameter which equals the anchor diameter, drill hole to min. embedment.



Drive the sleeve until washer is flush with material to be fastened.



Expand Anchor by tightening nut 3 to 5 turns.



■ Acorn Nut (AN)



■ Flat Head Slotted (FS)



■ Rod Couplings (RC)



■ Eye Couplings (EC)



■ Round Head Slotted (RS)

Type	Order Code	Anchor Size	Fastener Material Up To	Qty. per Box/Ctn.	Weight Kgs/1000pcs	Pull Out Load (kg)	
ACORN NUT	SAIA-14138	Ø 1/4 X 1-3/8	3/8	100/1000	11.4	549	
	SAIA-14214	Ø 1/4 X 2-1/4	1-1/4	100/1000	15.0		
	SAIA-14434	Ø 1/4 X 4-3/4	3-3/4	50/500	20.4		
HEX NUT	SAIH-25112	Ø 5/16 X 1-1/2	1/2	100/1000	20.4	654	
	SAIH-25212	Ø 5/16 X 2-1/2	1-1/2	100/1000	28.6		
	SAIH-38178	Ø 3/8 X 1-7/8	5/8	50/500	36.3		
	SAIH-38300	Ø 3/8 X 3	1-3/4	50/500	49.0		
	SAIH-12214	Ø 1/2 X 2-1/4	3/4	25/250	70.8	2163	
	SAIH-12234	Ø 1/2 X 2-3/4	1-1/4	25/250	84.0		
	SAIH-12400	Ø 1/2 X 4	2-1/2	25/250	99.9		
	SAIH-12600	Ø 1/2 X 6	4-1/2	25/125	156.0		
	SAIH-58214	Ø 5/8 X 2-1/4	1/4	25/250	120.0		
	SAIH-58300	Ø 5/8 X 3	1	10/100	145.0		
	2355	SAIH-58414	Ø 5/8 X 4-1/4	2-1/4	10/100	182.0	
		SAIH-58534	Ø 5/8 X 5-3/4	3-3/4	10/100	232.0	
		SAIH-34212	Ø 3/4 X 2-1/2	1/2	10/100	227.0	3303
		SAIH-34414	Ø 3/4 X 4-1/4	1-3/4	5/50	318.0	
SAIH-34614		Ø 3/4 X 6-1/4	3-3/4	5/50	427.0		
FLAT HEAD		SAIF-14200	Ø 1/4 X 2	1	100/1000	11.4	549
	SAIF-14300	Ø 1/4 X 3	2	100/1000	15.4		
	SAIF-14400	Ø 1/4 X 4	3	100/1000	20.0		
	SAIF-14514	Ø 1/4 X 5-1/4	4 - 1/4	100/1000	25.4		
	SAIF-38234	Ø 3/8 X 2-3/4	1-1/4	50/500	36.3	1218	
	SAIF-38400	Ø 3/8 X 4	2- 1/2	50/500	40.0		

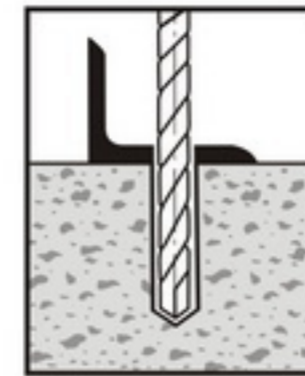
Stainless steel and special lengths are available.

SLEEVE ANCHORS

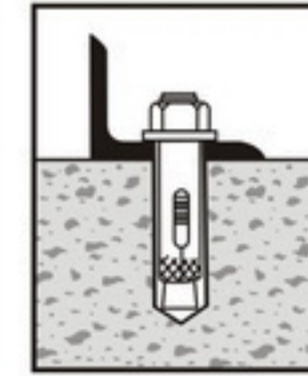
- Pre-assembled for quick and easy installation, can be used in thin sections of concrete or solid masonry.
- Head styles for every application.
- The test values listed below were obtained using 4000 psi/ concrete (no aggregate). A safe working load should not exceed 25% stated values.



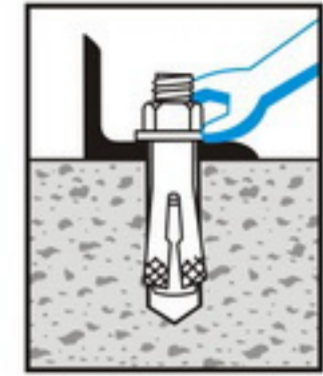
■ Hex Flange (HF)



Using a diameter which equals the anchor diameter, drill hole to min. embedment.



Drive the sleeve until washer is flush with material to be fastened.



Expand Anchor by tightening nut 3 to 5 turns.



■ Acorn Nut (AN)



■ Flat Head Slotted (FS)



■ Rod Couplings (RC)



■ Eye Couplings (EC)



■ Round Head Slotted (RS)

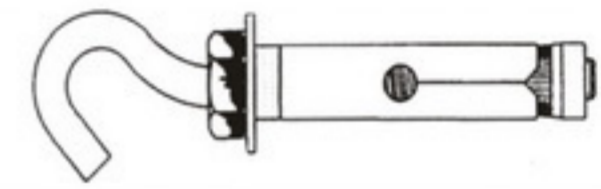
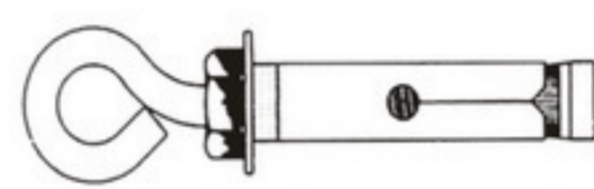
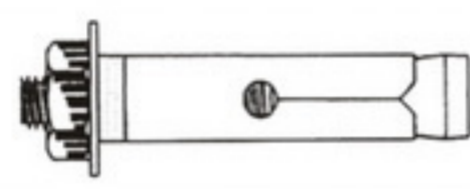
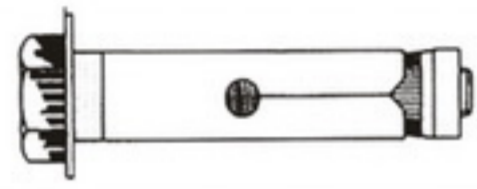
Type	Order Code	Anchor Size	Thread Size (d)	Fastener Material Up To	Qty. per Box/Ctn.	Weight Kgs/1000pcs	Pull Out Load (kg)
HEX FLANGE NUT	SAML-60018	Ø 6.5 X 18	M5	3	100/1000	7.0	549
	SAML-60036	Ø 6.5 X 36		8	100/1000	9.9	
	SAML-60056	Ø 6.5 X 56		28	100/1000	13.6	
	SAML-60075	Ø 6.5 X 75		47	50/500	17.3	
	SAML-60100	Ø 6.5 X 100		72	50/500	22.0	
	M6	SAML-80025	Ø 8 X 25	3	100/1000	14.5	654
		SAML-80040	Ø 8 X 40	12	100/1000	17.6	
		SAML-80065	Ø 8 X 65	37	50/500	24.0	
		SAML-80085	Ø 8 X 85	57	50/500	31.0	
		SAML-10040	Ø 10 X 40	3	50/500	32.0	
	M8	SAML-10050	Ø 10 X 50	12	50/500	36.0	1161
		SAML-10060	Ø 10 X 60	15	50/500	40.0	
		SAML-10077	Ø 10 X 77	39	50/500	46.0	
		SAML-10097	Ø 10 X 97	59	50/500	59.0	
		SAML-12060	Ø 12 X 60	15	50/500	64.0	
	M10	SAML-12075	Ø 12 X 75	27	50/500	72.0	1926
		SAML-12099	Ø 12 X 99	51	250/250	88.0	
		SAML-12129	Ø 12 X 129	81	250/125	105.0	
		SAML-16065	Ø 16 X 65	20	250/250	110.0	
	M12	SAML-16111	Ø 16 X 111	65	10/100	168.0	2355
SAML-16147		Ø 16 X 147	102	10/100	214.0		
SAML-20075		Ø 20 X 75	25	10/100	266.0		
M16	SAML-20107	Ø 20 X 107	57	5/50	333.0	3303	
	SAML-20151	Ø 20 X 151	101	5/50	426.0		
	FLAT HEAD	SAMF-65037	Ø 6.5 X 37	M5	20		100/1000
SAMF-65055		Ø 6.5 X 55	27		100/1000	11.5	
SAMF-65075		Ø 6.5 X 75	47		100/1000	15.0	
M6		SAMF-65100	Ø 6.5 X 100	72	100/1000	22.0	654
		SAMF-80040	Ø 8 X 40	12	100/1000	13.6	
		SAMF-80060	Ø 8 X 60	32	100/1000	20.0	
		SAMF-80085	Ø 8 X 85	57	50/500	29.0	
M8		SAMF-10065	Ø 10 X 65	20	50/500	40.0	1161
		SAMF-10075	Ø 10 X 75	37	50/500	46.0	
		SAMF-10102	Ø 10 X 102	64	50/500	57.0	
ROUND HEAD	SAMR-65032	Ø 6.5 X 32	M5	17	100/1000	8.0	549
	SAMR-65050	Ø 6.5 X 50		22	100/1000	11.5	
	SAMR-65070	Ø 6.5 X 70		42	100/1000	15.0	

Stainless steel and special lengths are available.



HEX HEAD BOLT SLEEVE ANCHORS

- The screws of the anchor have been manufactured under the DIN-933 standard and their quality-hardness is 6.8 (i.e. 60 to 80 kg/mm)
- The washer is wide, which gives a bigger allowance for pieces or structures to be fastened.
- While performing the fixing of the anchor, the plastic part or ring gets deformed, which fills and blocks the hole of the piece or structure to be fastened; this plastic absorbs material irregularities and is a useful damp-proof piece to protect the inner mechanism of the anchor.
- Any screw head available at your request.
- The cone has some grooves (milling) in order to prevent the anchor from becoming loose or spin movement after fixing into the hole and ready for expansion.



■ Screw (MB)

■ Bolt Projecting (ME)

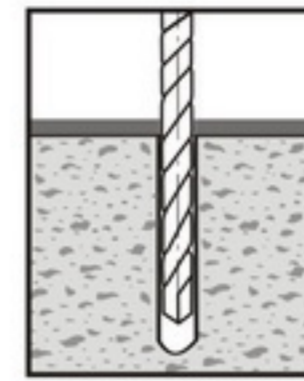
■ Eye (MA)

■ Hook (MC)

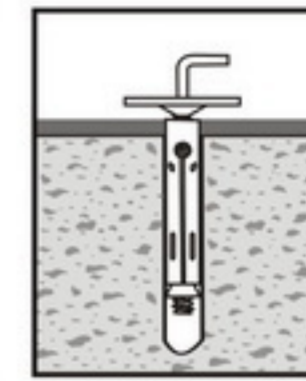
Order Code	Anchor Size	Drill Dia.	Min. Hole Depth	Max. Fixture Thickness	Sleeve Length
SHMB860045	M6 x 45	8	43	5	30
SHMB860050	M6 x 50	8	43	15	45
SHMB960045	M6 x 45	9	43	5	30
SHMB960060	M6 x 60	9	43	15	45
SHMB1080060	M8 x 60	10	55	5	41
SHMB1080080	M8 x 80	10	55	15	62
SHMB1180060	M8 x 60	11	55	5	41
SHMB1180080	M8 x 80	11	55	15	62
SHMB1210070	M10 x 70	12	70	5	48
SHMB1210100	M10 x 100	12	70	25	75
SHMB1410070	M10 x 70	14	70	5	50
SHMB14100100	M10 x 100	14	70	25	75
SHMB1612080	M12 x 80	16	80	5	55
SHMB1612110	M12 x 110	16	80	25	87
SHMB2016110	M16 x 110	20	90	15	82
SHMB2520130	M20 x 130	25	105	25	100
SHME860045	M6 x 45	8	43	5	30
SHME960045	M6 x 45	9	43	5	30
SHME1080060	M8 x 60	10	55	5	41
SHME1080080	M8 x 80	10	55	25	62
SHME1180060	M8 x 60	11	55	5	41
SHME1180080	M8 x 80	11	55	25	62
SHME1210070	M10 x 70	12	70	5	48
SHME1210100	M10 x 100	12	70	25	75
SHME1410070	M10 x 70	14	70	5	50
SHME1410100	M10 x 100	14	70	25	75
SHMO860045	M6 x 45	8	43	5	30
SHMO960045	M6 x 45	9	43	5	30
SHMO1080060	M8 x 60	10	55	5	41
SHMO1180060	M8 x 60	11	55	5	41
SHMO1210070	M10 x 70	12	70	5	48
SHMO1410070	M10 x 70	14	70	5	50
SHMO1612080	M12 x 80	16	80	5	55
SHMC860045	M6 x 45	8	43	5	30
SHMC960045	M6 x 45	9	43	5	30
SHMC1080060	M8 x 60	10	55	6	41
SHMC1180060	M8 x 60	11	55	6	41
SHMC1210070	M10 x 70	12	70	10	48
SHMC1410070	M10 x 70	14	70	10	50
SHMC1612080	M12 x 80	16	80	20	55

LIGHT DUTY SLEEVE ANCHORS

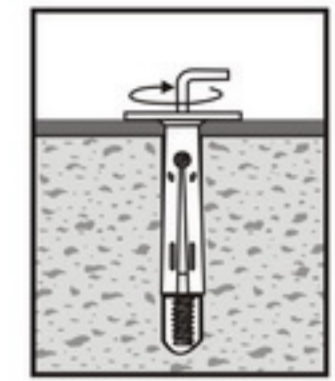
- For fixing in concrete, solid bricks, perforated bricks, hollow blocks.
- Any screw head available for your requirement.
- Pre-assembled for quick and easy installation.
- High holding power.



Drill a hole.



Clean hole & insert anchor.



Expand by tightening bolt.

LIGHT DUTY SLEEVE ANCHORS



■ Dual Screw(AF20)



■ Closed Eye(AF22)



■ Oval Head Screw(AF24)



■ Dual Screw(AF21)



■ Open Eye(AF23)

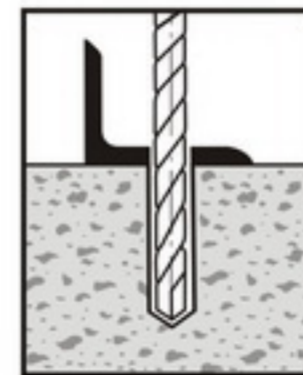
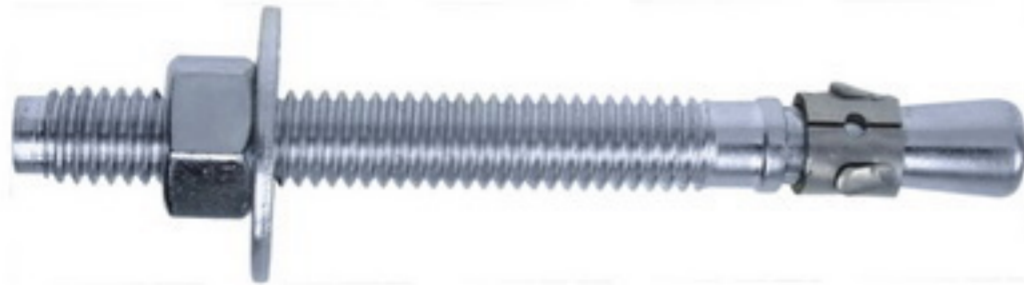
Order Code	Screw Size	Sleeve Size	Drill Dia.	Weight Kgs / 1000pcs	Qty.per Box/Ctn.
LDSM2001	M6 x 80	Ø9 x 36	9	27.8	100/1000
LDSM2101	M6 x 64	Ø9 x 36	9	20.8	100/1000
LDSM2201	M4 x 42	Ø8 x 34	8	13.0	100/1000
LDSM2202	M5 x 46	Ø9 x 36	9	20.8	100/1000
LDSM2301	M4 x 42	Ø8 x 34	8	12.6	100/1000
LDSM2302	M5 x 46	Ø9 x 36	9	17.2	100/1000
LDSM2401	M4 x 46	Ø8 x 34	8	8.8	100/1000
LDSM2402	M5 x 48	Ø9 x 36	9	13.0	100/1000

Medium hook and other forms can be manufactured to customer's requirement.

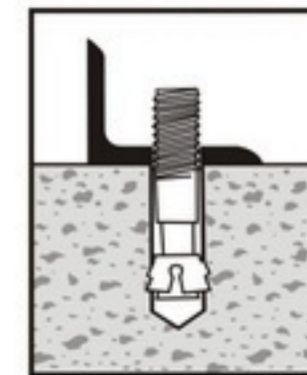


WEDGE ANCHORS

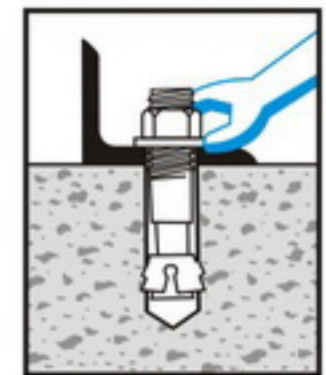
- Does not require precise hole depth or hole cleaning .
- Anchor can be hammered below the surface of the concrete when no longer needed.
The one-piece clip is formed around Anchor, assuring full expansion for dependable, superior holding power.
- Expanding clip will not fall off or twist in the hole.
- The test values listed beneath were obtained using 4000 psi concrete (no aggregate). A safe working load should not exceed 25% stated values.



Drill a hole to any depth exceeding the embedment.



Clean the hole & insert anchor.



Insert anchor and expand by tightening nut.

CLIP TYPE



■ TYPE A



■ TYPE B



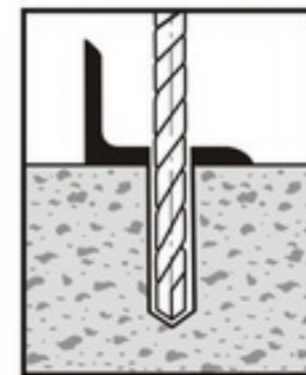
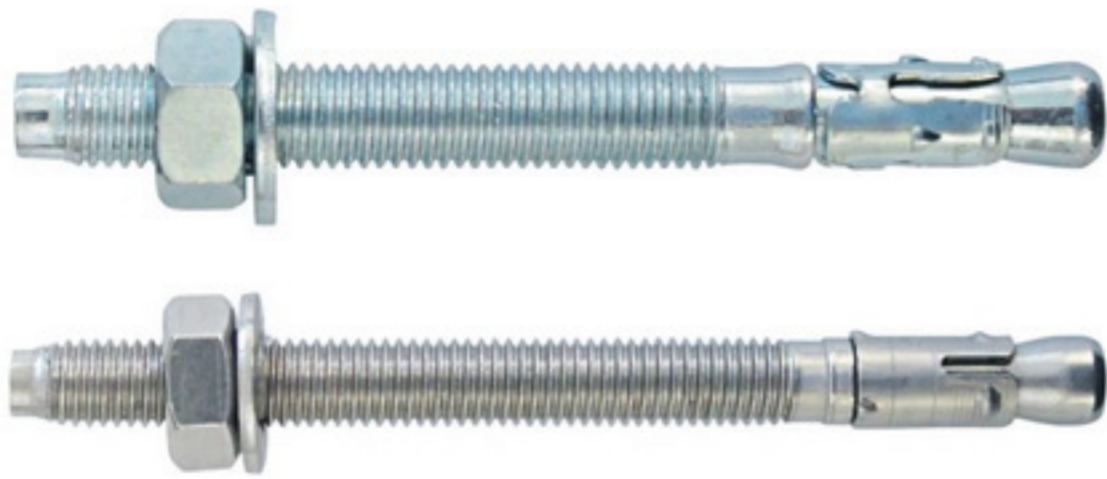
■ TYPE C

Order Code	Anchor Size	Min. Embedment	Qty. per Box/Ctn.	Weight Kgs/ 1000pcs	Pull Out Load (kg)
WAIC-14134	1/4 X 1-3/4	1-1/8	100/500	13.6	406
WAIC-14214	1/4 X 2-1/4		100/500	18.1	
WAIC-14300	1/4 X 3		100/500	20.7	
WAIC-38214	3/8 X 2-1/4	1-1/2	50/250	40.9	965
WAIC-38234	3/8 X 2-3/4		50/250	50.0	
WAIC-38300	3/8 X 3		50/250	54.5	
WAIC-38334	3/8 X 3-3/4		50/250	63.6	
WAIC-38500	3/8 X 5		50/200	81.7	
WAIC-12234	1/2 X 2-3/4	2-1/4	25/125	99.9	2198
WAIC-12334	1/2 X 3-3/4		25/125	118.0	
WAIC-12414	1/2 X 4-1/4		25/100	145.0	
WAIC-12512	1/2 X 5-1/2		25/100	168.0	
WAIC-12700	1/2 X 7		25/100	209.0	
WAIC-58312	5/8 X 3-1/2	2-3/4	25/100	191.0	3094
WAIC-58500	5/8 X 5		20/80	240.0	
WAIC-58600	5/8 X 6		20/80	295.0	
WAIC-58700	5/8 X 7		25/50	327.0	
WAIC-58812	5/8 X 8-1/2		25/50	381.0	
WAIC-34414	3/4 X 4-1/4	3-1/4	10/40	363.0	4300
WAIC-34512	3/4 X 5-1/2		10/40	395.0	
WAIC-34700	3/4 X 7		10/40	499.0	
WAIC-34812	3/4 X 8-1/2		10/40	545.0	
WAIC-34100	3/4 X 10		10/40	636.0	

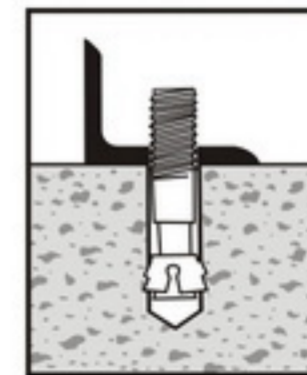
Stainless steel and special length are available.

WEDGE ANCHORS

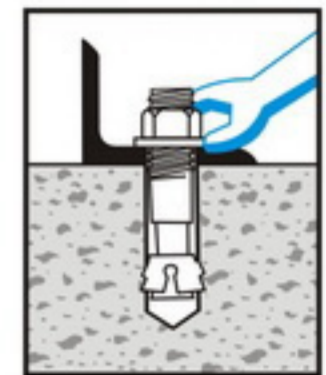
- Does not require precise hole depth or hole cleaning .
- Anchor can be hammered below the surface of the concrete when no longer needed.
- The one-piece clip is formed around Anchor, assuring full expansion for dependable, superior holding power.
- Expanding clip will not fall off or twist in the hole.
- The test values listed beneath were obtained using 4000 psi concrete (no aggregate). A safe working load should not exceed 25% stated values.



Drill a hole to any depth exceeding the embedment.



Clean the hole & insert anchor.



Insert anchor and expand by tightening nut.

CLIP TYPE



■ TYPE A



■ TYPE B

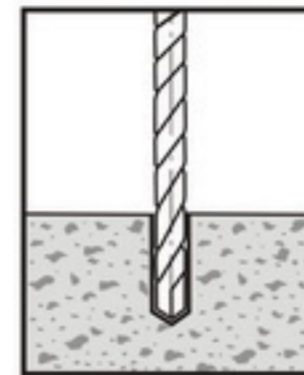
Order Code	Anchor Size	Min. Embedment	Max. Fixture Thickness	Weight Kgs/1000pcs	Pull Out Load (kg)
WAMF-06040	M6 X 40	27	3	10.2	432
WAMF-06055	M6 X 55	35	15	13.5	
WAMF-06070	M6 X 70	35	30	16.7	
WAMF-06095	M6 X 95	35	55	20.0	
WAMF-08050	M8 X 50	35	10	27.0	1038
WAMF-08065	M8 X 65	40	20	33.0	
WAMF-08080	M8 X 80	40	35	39.0	
WAMF-08095	M8 X 95	40	50	45.0	
WAMF-08105	M8 X 150	40	60	49.0	
WAMF-08120	M8 X 120	40	75	55.0	
WAMF-08165	M8 X 165	40	135	73.0	
WAMF-08220	M8 X 220	40	175	95.0	
WAMF-10065	M10 X 65	40	15	52.0	1437
WAMF-10080	M10 X 80	50	20	61.0	
WAMF-10095	M10 X 95	50	35	70.0	
WAMF-10115	M10 X 115	50	55	82.0	
WAMF-10120	M10 X 120	50	60	86.0	
WAMF-10130	M10 X 130	50	70	92.0	
WAMF-12080	M12 X 80	50	20	84.0	1713
WAMF-12100	M12 X 100	60	30	102.0	
WAMF-12120	M12 X 120	60	50	120.0	
WAMF-12135	M12 X 135	60	65	133.0	1892
WAMF-12150	M12 X 150	60	80	146.0	
WAMF-16105	M16 X 105	70	15	191.0	
WAMF-16140	M16 X 140	80	40	246.0	2903
WAMF-16180	M16 X 180	80	82	320.0	
WAMF-16220	M16 X 220	80	120	373.0	
WAMF-20125	M20 X 125	85	15	363.0	2997
WAMF-20160	M20 X 160	100	40	450.0	4069
WAMF-20200	M20 X 200	100	80	549.0	
WAMF-20300	M20 X 300	100	180	797.0	

Stainless steel and special lengths are available.

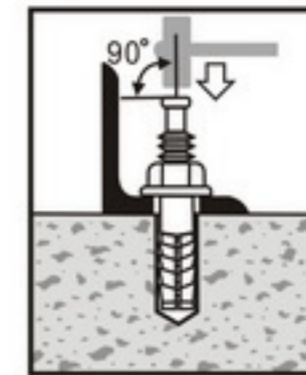


HIT ANCHORS

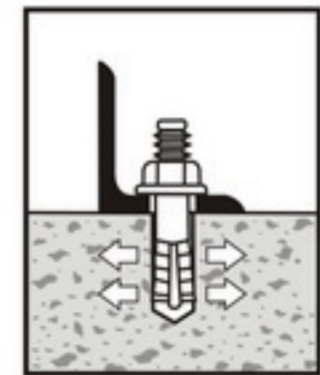
- HIT ANCHOR is a fast & easy way to use expansion anchor, no precise hole depth required and installation condition can be adjusted from pin and nut.
- Nail made with high tensile material.
- The test values listed below were obtained using 3000 psi concrete (no aggregate). A safe working load should not exceed 25% stated values.



Drill a hole.



Insert anchor expand nail by a hammer.



Tighten nut firmly

TYPE C

Order Code	Anchor Size	Outside Dia.	Anchor Length	Thread Length	Max Fixture thickness	Drill Dia.	Embedment	Pull Out Load (kg)
AAMC-645	M6	6	45	15	5	6.4	30	350
AAMC-660	M6	6	60	20	10~20	6.4	30	400
AAMC-850	M8	8	50	20	5	8.5	35	705
AAMC-870	M8	8	70	25	15~25	8.5	35	705
AAMC-890	M8	8	90	25	30~45	8.5	35	705
AAMC-1050	M10	10	50	20	1~6	10.5	30	870
AAMC-1060	M10	10	60	25	1~6	10.5	40	970
AAMC-1070	M10	10	70	25	5~16	10.5	40	970
AAMC-1080	M10	10	80	25	15~26	10.5	40	970
AAMC-1090	M10	10	90	30	20~36	10.5	40	970
AAMC-1010	M10	10	100	30	30~46	10.5	40	970
AAMC-1012	M10	10	120	30	50~66	10.5	40	970
AAMC-1260	M12	12	60	25	1~10	12.7	35	1240
AAMC-1270	M12	12	70	25	1~10	12.7	45	1340
AAMC-1280	M12	12	80	25	10~20	12.7	45	1340
AAMC-1290	M12	12	90	30	15~30	12.7	45	1340
AAMC-1210	M12	12	100	40	15~40	12.7	45	1340
AAMC-1212	M12	12	120	50	25~60	12.7	45	1340
AAMC-1608	M16	16	80	30	1~10	17.0	50	1600
AAMC-1610	M16	16	100	40	1~20	17.0	60	2450
AAMC-1612	M16	16	120	40	20~40	17.0	60	2450
AAMC-1615	M16	16	150	50	40~70	17.0	60	2450
AAMC-1619	M16	16	190	50	60~110	17.0	60	2450
AAMC-2013	M20	20	130	50	1~25	21.5	80	3550
AAMC-2015	M20	20	150	50	20~45	21.5	80	3550
AAMC-2019	M20	20	190	50	60~85	21.5	80	3550

TYPE T



Order Code	Anchor Dia.	Anchor Length	Head Dia. (D)	Drill Dia.
AAMT-420	4	20	8.0	4.3
AAMT-425	4	25	8.0	4.3
AAMT-525	5	25	9.0	5.4
AAMT-530	5	30	9.0	5.4
AAMT-630	6	30	11.0	6.4
AAMT-640	6	40	11.0	6.4
AAMT-650	6	50	11.0	6.4
AAMT-660	6	60	11.0	6.4
AAMT-840	8	40	14.5	8.5
AAMT-860	8	60	14.5	8.5
AAMT-1050	10	50	16.0	10.5
AAMT-1070	10	70	16.0	10.5

TYPE Y

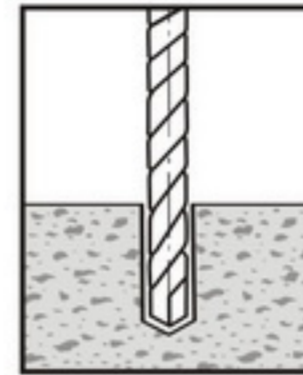


Order Code	Anchor Dia.	Anchor Length	Head Dia. (D)	Drill Dia.	Pull Out Load (kgs)
AAMY-420	4	20	8	4.3	287
AAMY-425	4	25	8	4.3	287
AAMY-525	5	25	10	5.4	460
AAMY-530	5	30	10	5.4	460
AAMY-630	6	30	12	6.4	685
AAMY-640	6	40	12	6.4	685
AAMY-840	8	40	14	8.5	
AAMY-860	8	60	14	8.5	
AAMY-1050	10	50	18	10.5	
AAMY-1070	10	70	18	10.5	

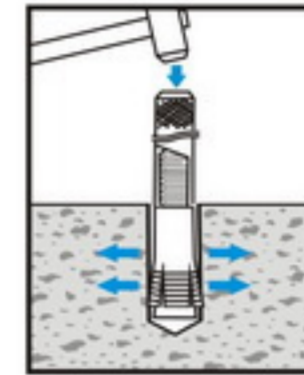
Stainless steel and special lengths are available.

BOLT ANCHORS

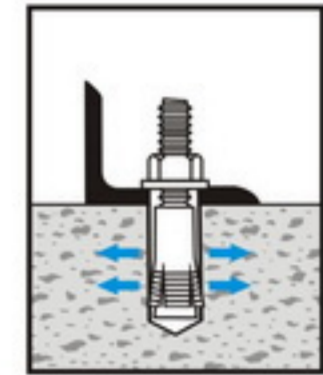
- Pre-assembled for quick and easy installation, high holding power by tough sleeve can be used in heavy duty applications.
- Vibration resistance.
- Versatile and durable.
- Nut spring washer and washer are pre-assembled.
- The test values listed were obtained using 4000 psi concrete (no aggregate.)
- A safe working load should not exceed 25% of stated value.



Drill a hole .



Insert anchor expand anchor by tool & hammer.



Tighten nut firmly.

Order Code	Anchor Size	Outside Dia.	Sleeve Length	Drill Dia.	Pull Out Load (kg)
SKMH-650	M6 x 50	9.5	30	9.5	890
SKVH-2050	(1/4-20WT)x 50	9.5	30	9.5	890
SKMH-865	M8 x 65	12.0	35	12.0	1390
SKVH-2565	(5/16-18WT)x 65	12.0	35	12.0	1390
SKMH-870	M8 x 70	12.0	35	12.0	1390
SKVH-2570	(5/16-18WT)x 70	12.0	35	12.0	1390
SKMH-1070	M10 x 70	14.0	40	14.5	1600
SKVH-3070	(3/8-16WT)x 70	14.0	40	14.5	1600
SKMH-1080	M10 x 80	14.0	40	14.5	1600
SKVH-3080	(3/8-16WT)x 80	14.0	40	14.5	1600
SKMH-1010	M10 x 100	14.0	40	14.5	1600
SKVH-30A00	(3/8-16WT)x 100	14.0	40	14.5	1600
SKMH-1012	M10 x 120	14.0	40	14.5	1600
SKVH-30A20	(3/8-16WT)x 120	14.0	40	14.5	1600
SKMH-1210	M12 x 100	17.3	50	18.0	2540
SKVH-40A00	(1/2-12WT)x 100	17.3	50	18.0	2540
SKMH-1212	M12 x 125	17.3	60	18.0	2540
SKVH-40A20	(1/2-12WT)x 125	17.3	60	18.0	2540
SKMH-1215	M12 x 160	17.3	60	18.0	2540
SKVH-40A50	(1/2-12WT)x 160	17.3	60	18.0	2540
SKMH-1610	M16 x 100	21.7	50	22.5	3300
SKVH-50A00	(5/8-11WT)x 100	21.7	50	22.5	3300
SKMH-1612	M16 x 120	21.7	60	22.5	3300
SKVH-50A20	(5/8-11WT)x 120	21.7	60	22.5	3300
SKMH-1615	M16 x 125	21.7	60	22.5	3300

Stainless steel and special lengths are available.



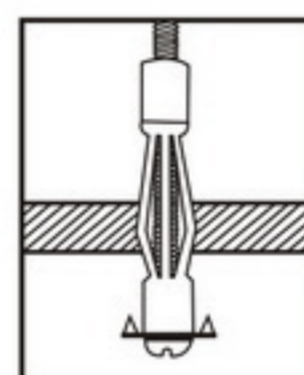
HOLLOW WALL ANCHORS

Hollow Wall anchors securely fasten mirrors, pictures, cabinets, curtain-drapes, shelf brackets, bathroom fixtures, to hollow walls of plaster over wood lath or metal lath, wallboard, gypsum or cinder block, hollow tile, etc. Fixtures can be removed or replaced for redecoration without disturbing the Hollow Wall Anchors.

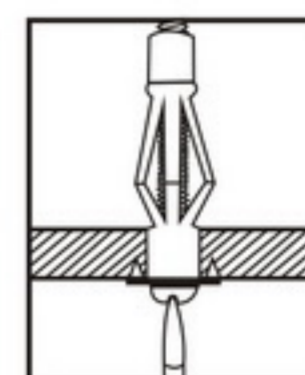
HOLLOW WALL ANCHORS



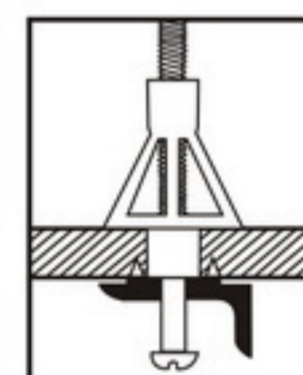
(HWPF)



Insert anchor through wall and tap until head is flat against the surface.



Expand it by turning screw until resistance is felt.



Remove screw and place it through fixture. Insert and retighten.



■ TYPE L (HWLF)



■ TYPE C (HWCF)



■ TYPE O (HWOF)

Order Code	Anchor Size		Grip Range	
	(mm)	(Inch)	(mm)	(Inch)
HWPF-1801	1/8 x S	4 XS	UP~5	UP~1/4
HWPF-1802	1/8 S	4 S	3~12	1/8~1/2
HWPF-1825	1/8 M	4 M	10~16	3/8~5/8
HWPF-1803	1/8 SL	4 SL	3~20	1/4~13/16
HWPF-1835	1/8 L	4 L	16~24	5/8~1-1/4
HWPF-1804	1/8 XL	4 XL	31~38	1-1/4~1-1/2
HWPF-3160	3/16 E	6 E	6~13	1/4~1/2
HWPF-3161	3/16 S	6 S	3~16	1/8~5/8
HWPF-3162	3/16 L	6 L	14~32	5/8~1-1/4
HWPF-3163	3/16 XL	6 XL	27~45	1-1/4~1-3/4
HWPF-1400	1/4 E	8 E	6~3	1/4~1/2
HWPF-1401	1/4 S	8 S	3~16	1/8~5/8
HWPF-1402	1/4 L	8 L	14~32	5/8~1-1/4
HWPF-1403	1/4 XL	8 XL	27~45	1-1/4~1-3/4

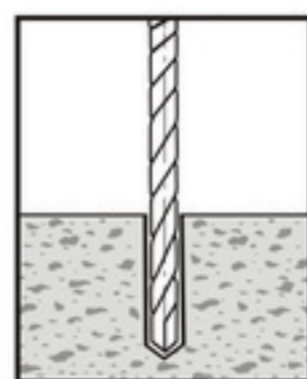
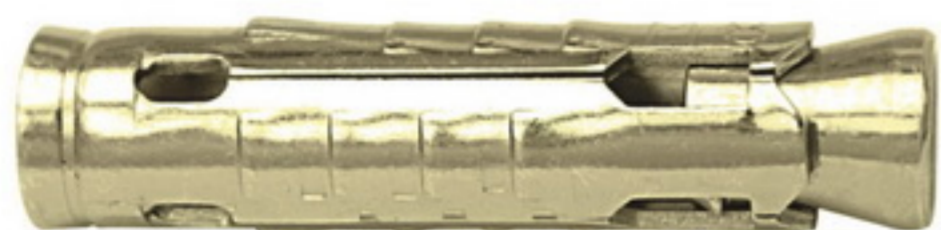
DRIVE TYPE



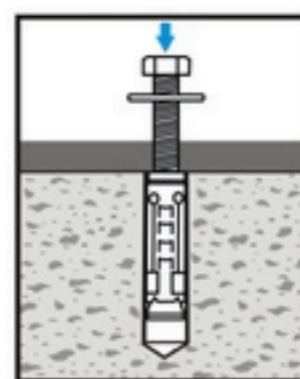
Order Code	Anchor Size		Grip Range	
	(mm)	(Inch)	(mm)	(Inch)
HWD-1805	1/8 x SD	4 x SD	UP~5	UP~1/4
HWD-1806	1/8 SD	4 SD	3~12	1/8~1/2
HWD-1807	1/8 MD	4 MD	10~16	3/8~5/8
HWD-1808	1/8 SLD	4 SLD	3~20	1/4~13/16
HWD-1808	1/8 LD	4 LD	16~24	5/8~1-1/4

STEEL EXPANSION SHIELD (ONE PIECE)

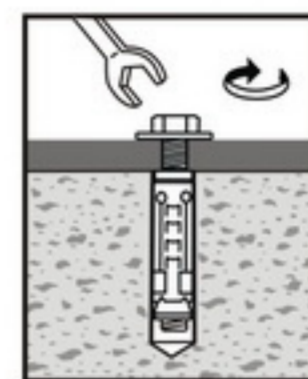
- Steel 1 segments shield anchor for heavy-duty fixings available with various accessories and yellow zinc/zinc plated passivated.



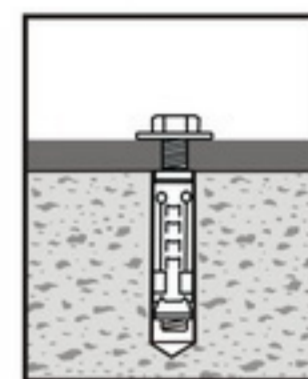
Drill and remove dust.



Place the plug and the object to fix.



Tighten the screw.



Fixing completed.

STEEL EXPANSION SHIELD

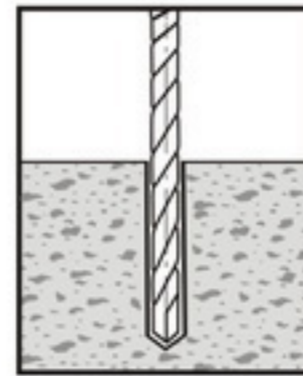


Order No.	Anchor Size	Anchor Length	Anchor Dia	Qty.Per Box/ Carton
	(M)	M x L	(mm)	
SAMA06	M 6	45	10	100/1000
SAMA08	M 8	50	12	50/500
SAMA10	M 10	60	14	50/250
SAMA12	M 12	75	18	25/200

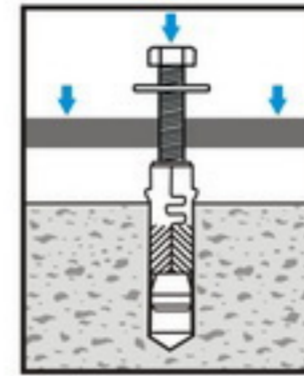


STEEL 2 SEGMENTS SHIELD ANCHORS

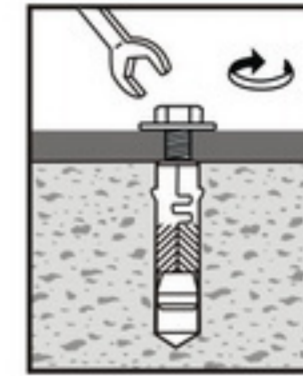
- Steel 2 segments shield anchor for heavy-duty fixings available with various accessories and yellow zinc/zinc plated passivated.
- The thread in the cone is protected from dust and impurity by a plastic plug. A plastic bush is fitted at the entry end to assist in the alignment of the item being fixed.



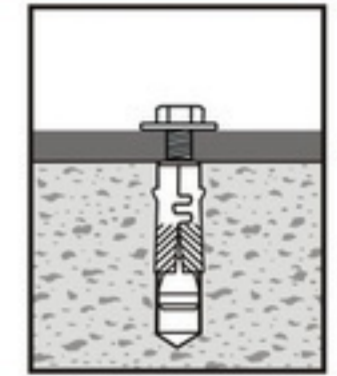
Drill and remove dust.



Place the plug and the object to fix.



Tighten the screw.



Fixing completed.

Order Code	Anchor Size	Anchor Length	Min. Hole Depth	Hole Dia.	Setting Torque
	(M)	(mm)	(mm)	(mm)	(Nm)
CAYT06S	M 6S	45	50	12	10
CAYT08S	M 8S	50	55	14	25
CAYT10S	M 10S	60	65	16	40
CAYT12S	M 12S	75	85	20	75
CAYT16S	M 16S	95	110	24	180

Stainless steel and special length are available.

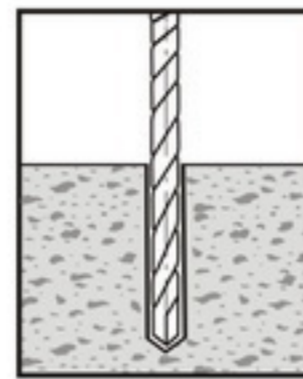


Order Code	Anchor Size	Anchor Length	Hex Bolt 8.8	Min. Hole Depth	Hole Dia.	Setting Torque
	(M)	(mm)	M x L	(mm)	(mm)	(Nm)
CAYS06L	M 6L	45	M6 x 55	50	12	10
CAYS08L	M 8L	50	M8 x 65	55	14	25
CAYS10L	M 10L	60	M10 x 75	65	16	40
CAYS12L	M 12L	75	M12 x 90	85	20	75
CAYS16L	M 16L	95	M16 x 100	110	24	180

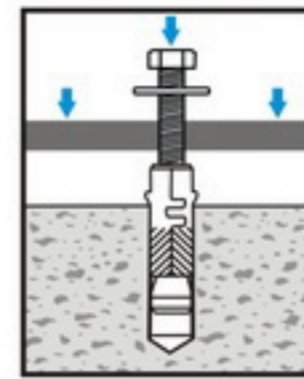
Stainless steel and special length are available.

STEEL 2 SEGMENTS SHIELD ANCHORS

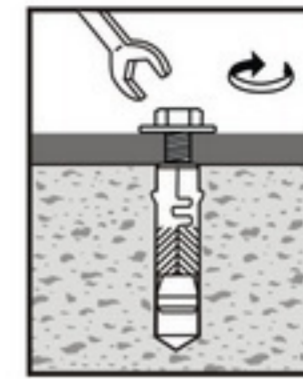
- Steel 2 segments shield anchor for heavy-duty fixings available with various accessories and yellow zinc/zinc plated passivated.
- The thread in the cone is protected from dust and impurity by a plastic plug. A plastic bush is fitted at the entry end to assist in the alignment of the item being fixed.



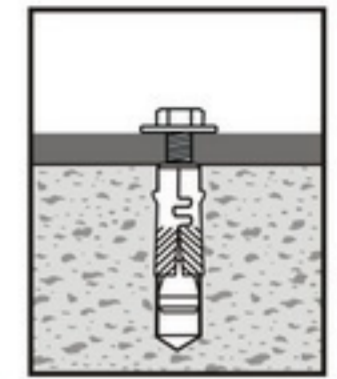
Drill and remove dust.



Place the plug and the object to fix.



Tighten the screw.



Fixing completed.

Order No.	Anchor Size	Anchor Length	Threaded rod	Min. Hole Depth	Hole Dia.	Setting Torque
	(M)	(mm)	M x L	(mm)	(mm)	(Nm)
CAYR06P	M 6P	45	M6 x 60	50	12	10
CAYR08P	M 8P	50	M8 x 75	55	14	25
CAYR10P	M 10P	60	M10 x 90	65	16	40
CAYR12P	M 12P	75	M12 x 105	85	20	75
CAYR16P	M 16P	95	M16 x 150	110	24	180



Order No.	Anchor Size	Anchor Length	Eyebolt Size	Min. Hole Depth	Hole Dia.	Setting Torque
	(M)	(mm)	M x L	(mm)	(mm)	(Nm)
CAYE06E	M 6E	45	M6 x 75	50	12	10
CAYE08E	M 8E	50	M8 x 91	55	14	25
CAYE10E	M 10E	60	M10 x 109	65	16	40
CAYE12E	M 12E	75	M12 x 153	85	20	75
CAYE16E	M 16E	95	M16 x 161	110	24	180

Stainless steel and special length are available.

Order No.	Anchor Size	Anchor Length	Hookbolt Size	Min. Hole Depth	Hole Dia.	Setting Torque
	(M)	(mm)	M x L	(mm)	(mm)	(Nm)
CAYH06H	M 6H	45	M6 x 82	50	12	10
CAYH08H	M 8H	50	M8 x 94	55	14	25
CAYH10H	M 10H	60	M10 x 112	65	16	40
CAYH12H	M 12H	75	M12 x 160	85	20	75
CAYH16H	M 16H	95	M16 x 175	110	24	180

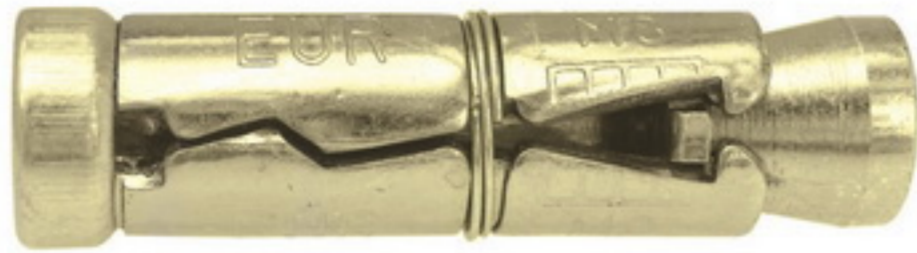
Stainless steel and special length are available.



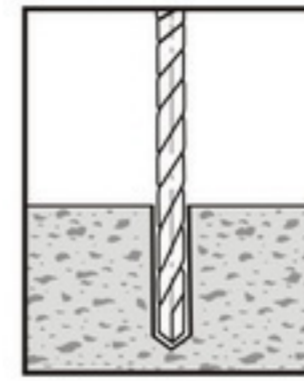
HEAVY/DUTY SHIELD ANCHORS

(3PCS / 4 PCS STYLE)

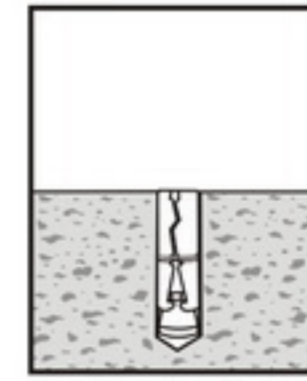
- Heavy duty shield anchor 3 pcs / 4 pcs shields made of steel.
- High retaining power & can be removed easily.
- When tightening the nut or screw the conical section is pulled into the anchor shields expanding & wedging it inside the anchor base.



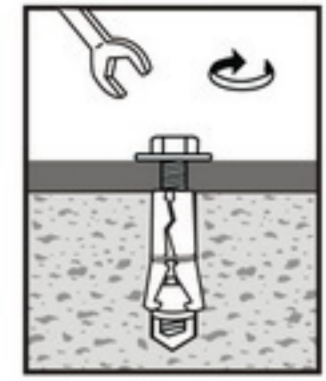
Conical Nut Type
3 PCS



Using a diameter which equals the anchor diameter, drill hole to min embedment.



Drive the sleeve until washer is flush with material to be fastened.



Expand anchor by tightening nut or head 3 to 5 turns.



Conical Nut Type
4 PCS



Square Nut Type
4 PCS



O Type
3 PCS



C Type
3 PCS

Order Code	Anchor Size	Anchor Length	Min. Hole Depth	Hole Dia.	Setting Torque
	(M)	(mm)	(mm)	(mm)	(Nm)
HSMC06S	M 6S	45	50	12	10
HSMC08S	M 8S	50 (55)	55	14	25
HSMC10S	M 10S	60 (65)	65	16	40
HSMC12S	M 12S	75 (90)	85	20	75
HSMC16S	M 16S	110 (115)	125	25	180
HSMC20S	M 20S	130 (150)	150	32	345

Order Code	Anchor Size	Anchor Length	Eyebolt Size	Min. Hole Depth	Hole Dia.	Setting Torque
	(M)	(mm)	(mm)	(mm)	(mm)	(Nm)
HSMC06E	M 6E	45	6 X 73	50	12	10
HSMC08E	M 8E	50	8 X 87	55	14	25
HSMC10E	M 10E	60	10 X 108	65	16	40
HSMC12E	M 12E	75	12 X 130	85	20	75
HSMC16E	M 16E	110	16 X 180	125	25	180

Order Code	Anchor Size	Anchor Length	Eyebolt Size	Min. Hole Depth	Hole Dia.	Setting Torque
	(M)	(mm)	(mm)	(mm)	(mm)	(Nm)
HSMC06H	M 6H	45	6 X 83	50	12	10
HSMC08H	M 8H	50	8 X 98	55	14	25
HSMC10H	M 10H	60	10 X 120	65	16	40
HSMC12H	M 12H	75	12 X 145	85	20	75

HEAVY/DUTY SHIELD ANCHORS

(3PCS / 4 PCS STYLE)



■ Conical Nut Type
3 PCS

Order Code	Anchor Size	Anchor Length	Hex Bolt 8.8	Min. Hole Depth	Hole Dia.	Setting Torque
	(M)	(mm)	M x L	(mm)	(mm)	(Nm)
HSMC0610L	M 6-10L	45	6 x 55	50	12	10
HSMC0625L	M6-25L	45	6 x 70	50	12	10
HSMC0640L	M6-40L	45	6 x 85	50	12	10
HSMC0810L	M8-10L	50	8 x 65	55	14	25
HSMC0825L	M8-25L	50	8 x 80	55	14	25
HSMC0840L	M8-40L	50	8 x 95	55	14	25
HSMC1010L	M10-10L	60	10 x 75	65	16	40
HSMC1025L	M10-25L	60	10 x 90	65	16	40
HSMC1050L	M10-50L	60	10 x 115	65	16	40
HSMC1075L	M10-75L	60	10 x 140	65	16	40
HSMC1210L	M12-10L	75	12 x 90	85	20	75
HSMC1225L	M12-25L	75	12 x 105	85	20	75
HSMC1240L	M12-40L	75	12 x 120	85	20	75
HSMC1260L	M12-60L	75	12 x 140	85	20	75
HSMC1615L	M16-15L	110	16 x 135	125	25	180
HSMC1630L	M16-30L	110	16 x 150	125	25	180
HSMC1660L	M16-60L	110	16 x 180	125	25	180
HSMC2060L	M20-60L	130	20 x 195	150	32	345
HSMC20100L	M20-100L	130	20 x 235	150	32	345



■ Conical Nut Type
3 PCS

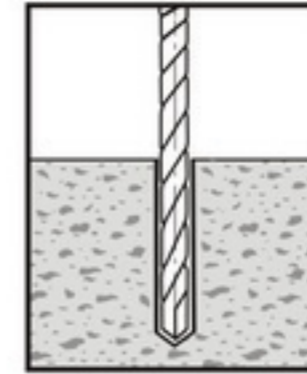
Order Code	Anchor Size	Anchor Length	Threaded rod	Min. Hole Depth	Hole Dia.	Setting Torque
	(M)	(mm)	M x L	(mm)	(mm)	(Nm)
HSMC0610P	M 6-10P	45	6 x 65	50	12	10
HSMC0625P	M6-25P	45	6 x 80	50	12	10
HSMC0660P	M6-60P	45	6 x 115	50	12	10
HSMC0810P	M8-10P	50	8 x 75	55	14	25
HSMC0825P	M8-25P	50	8 x 90	55	14	25
HSMC0860P	M8-60P	50	8 x 125	55	14	25
HSMC1015P	M10-15P	60	10 x 90	65	16	40
HSMC1030P	M10-30P	60	10 x 105	65	16	40
HSMC1060P	M10-60P	60	10 x 135	65	16	40
HSMC1215P	M12-15P	75	12 x 110	85	20	75
HSMC1230P	M12-30P	75	12 x 125	85	20	75
HSMC1275P	M12-75P	75	12 x 170	85	20	75
HSMC1615P	M16-15P	110	16 x 150	125	25	180
HSMC1635P	M16-35P	110	16 x 170	125	25	180
HSMC1675P	M16-75P	110	16 x 210	125	25	180
HSMC2015P	M20-15P	130	20 x 175	150	32	345
HSMC2030P	M20-30P	130	20 x 185	150	32	345
HSMC20100P	M20-100P	130	20 x 255	150	32	345

HEAVY/DUTY SHIELD ANCHORS

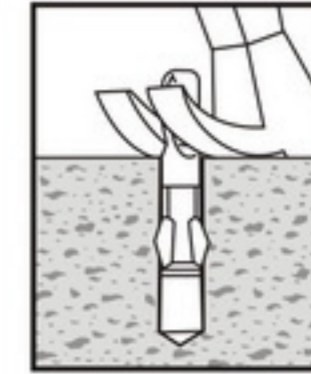


TIE WIRE ANCHORS

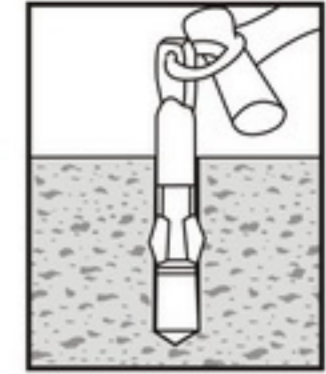
- TIE WIRE ANCHOR is quick to install & easily set by pulling back with claw hammer.
- Strong holding power specifically designed to protect anchorage point in concrete ceiling.
- Suitable for: ceiling & lightweight suspension, i.e. hanging overhead signed.



Drill a hole.



Insert anchor. Expand by a hammer.



Tighten the steel wire or rod.

Order Code	Anchor Size	Drill Dia.	Eye Size	Min. Embedment	Pull Out Load (kg)
		(mm)	(mm)	(mm)	
WAMT-60	M6 x 60L	6.0	6.3	35	480
WAIT-66	M6 x 66L	6.0	6.3	42	480
WAIT-220	1/4 x 2 1/4L	1/4	9/32	1-1/8	550
WAIT-203	1/4 x 2 1/32L	1/4	9/32	1-1/8	550
WAIT-210	1/4 x 2 1/8L	1/4	9/32	1-1/8	550
WAIT-230	1/4 x 2 1/4L	1/4	9/32	1-1/8	550

Stainless steel and special length are available.

SPLIT DRIVE ANCHORS

- The only true ONE PIECE expansion anchor, no parts to lose.
- Anchor size is drill size, no hole spotting, fast to drill and set.
- For great tensile strength and hardness, it is given two heat treatment.
- With the two sheared and pre-expanded halves of the anchor, exerting a tremendous gripping force in wall of hole.
- Any head available for your requirement.
- The test values listed were obtained using 4000 psi concrete (no aggregate.)
- A safe working load should not exceed 25% of stated value.



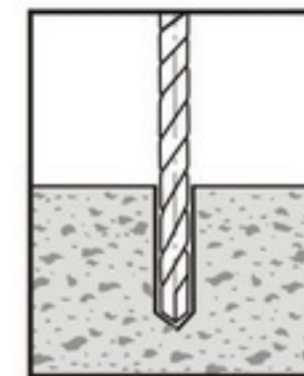
■ FLAT HEAD



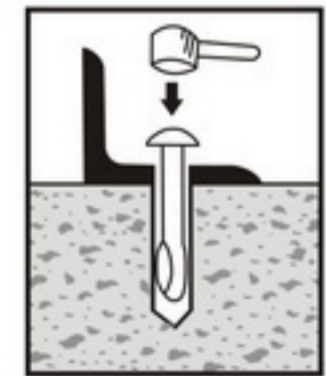
■ TIE HEAD



■ ROUND HEAD



Drill a hole.



Drive the anchor into the hole.

FLAT HEAD/ROUND HEAD

Order Code	Anchor Size	Min. Depth	Max. Fixture Thickness	Qty. per Box/Ctn.	Pull Out Load (kg)
SD-316100	3/16 x 1	7/8	1-1/8	100/500	400
SD-315112	3/16 x 1-1/2	7/8	1/2	100/500	400
SD-316200	3/16 x 2	7/8	1	100/500	400
SD-316212	3/16 x 2-1/2	7/8	1-1/2	100/500	400
SD-316300	3/16 x 3	7/8	1-1/2	100/500	400
SD-14122	1/4 x 1-1/2	1-1/8	1/2	100/500	700
SD-14200	1/4 x 2	1-1/8	1	100/500	700
SD-14212	1/4 x 2-1/2	1-1/8	1-1/2	100/500	700
SD-14300	1/4 x 3	1-1/8	2	100/500	700
SD-14312	1/4 x 3-1/2	1-1/8	2-1/2	100/500	700
SD-14400	1/4 x 4	1-1/8	3	100/500	700

TIE WIRE

SD-14134-TW	1/4 x 1-3/4	1-1/8	1	100/500	1000
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CONCRETE SCREWS

- Flat Countersunk with Phillips #3 Driver, Hex with Phillips, Slot Combination.
- The raised threads cut into the masonry, while the lowered threads provide exceptional holding power and stability.
- Diamond cut notches on the raised thread for dual purposes. They cut sharply into the concrete, while at the same time expel dust and concrete chips.
- Xylan coating offers high resistance to corrosion. Comes in a variety of color for decoration.

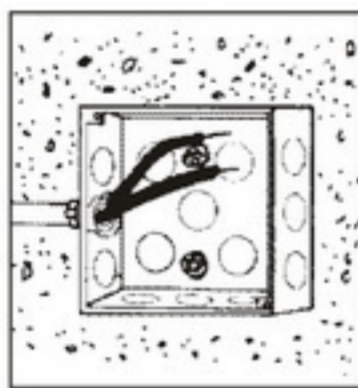


CONCRETE SCREWS

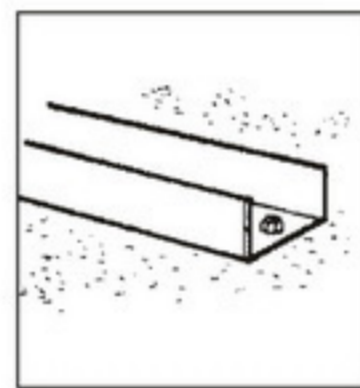
ILLUSTRATION:



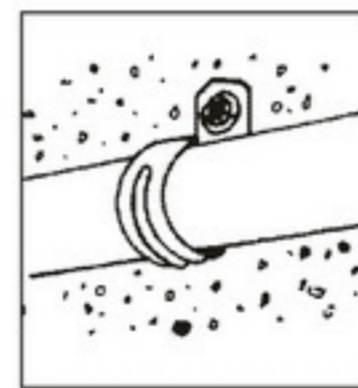
Machinery



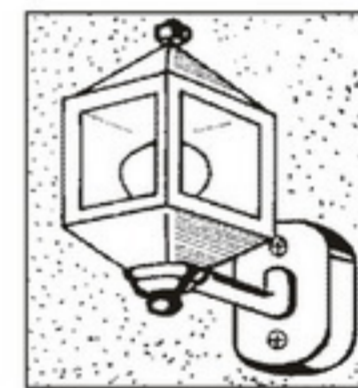
Junction Boxes



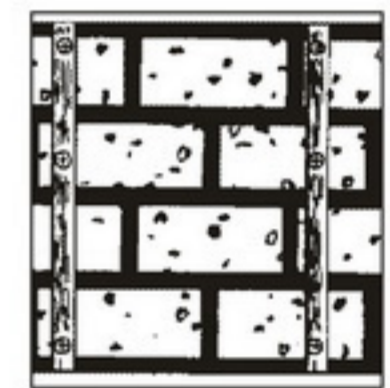
Wall Decorations



Conduit Clips



Light Fixtures



Shelving Strips

Hex Head	Flat Head	Screw Size	Min. Embedment	Drill Bit
IKNS3112	IKFF3112	3/16 x 1-1/4	1	5/32 x 3-1/2
IKNS3116	IKFF3116	3/16 x 1-3/4	1-1/8	5/32 x 3-1/2
IKNS3122	IKFF3122	3/16 x 2-1/4	1-1/2	5/32 x 4- 1/2
IKNS3126	IKFF3126	3/16 x 2-3/4	1-1/2	5/32 x 4- 1/2
IKNS3132	IKFF3132	3/16 x 3-1/4	1-1/2	5/32 x 5- 1/2
IKNS3140	IKFF3140	3/16 x 4	1-1/2	5/32 x 5- 1/2
IKNS1412	IKFF1412	1/4 x 1-1/4	1	3-16 x 3- 1/2
IKNS1416	IKFF1416	1/4 x 1-3/4	1-1/4	3-16 x 3- 1/2
IKNS1422	IKFF1422	1/4 x 2-1/4	1-1/2	3-16 x 4- 1/2
IKNS1426	IKFF1426	1/4 x 2-3/4	2	3-16 x 4- 1/2
IKNS1432	IKFF1432	1/4 x 3-1/4	2	3-16 x 5- 1/2
IKNS1440	IKFF1440	1/4 x 4	2	3-16 x 5- 1/2
IKNS1450	IKFF1450	1/4 x 5	2	3-16 x 6- 3/4

Both nail point and sharp point are available.

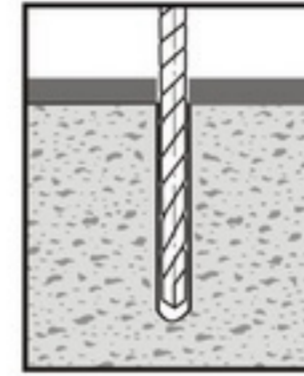


CONCRETE BOLT

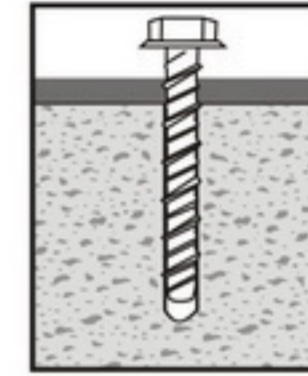
- The Concrete bolt provides a single fixing anchor for the majority of fixing needs.
- Threaded anchorage is not subject to expansion pressure and maintains its fix without preload.
- Special thread designed to give maximum fixing ability.
- Threading system allows for total removal of anchor from substrate.
- Carbon steel, heat treatment.
- Zinc plated or mechanically galvanized.



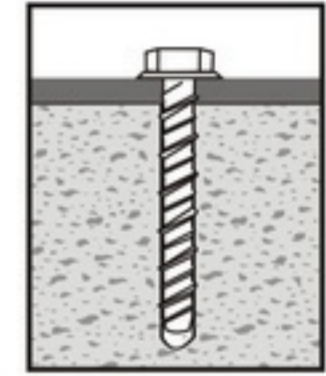
■ Hex Flange Head



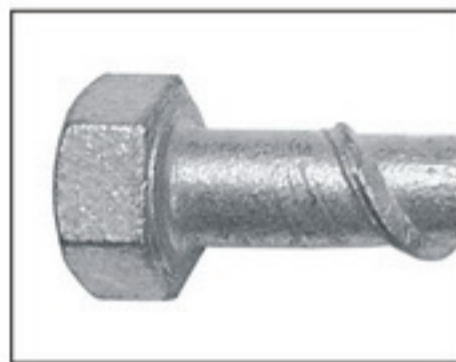
Drill a starting hole.



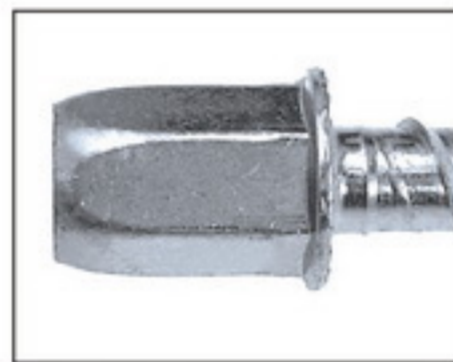
Drive the screw.



Fastener is complete.



Hex Head



Hex Hanger Head



Hook Head



Eye Bolt

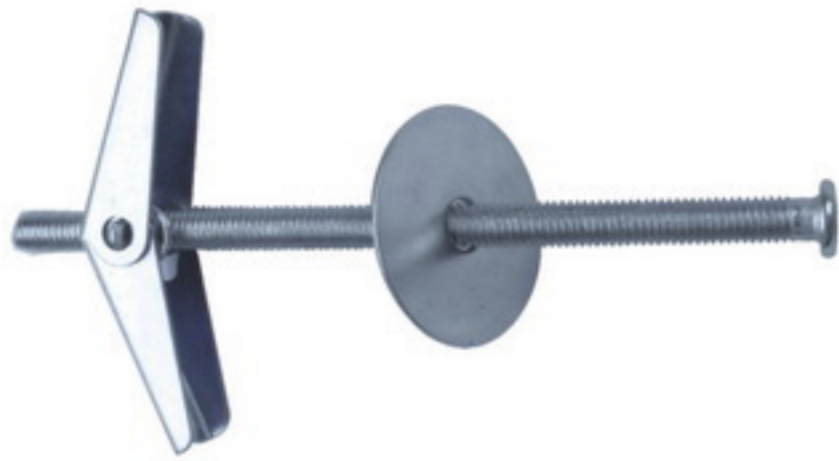


CSK. Head Torx Drive

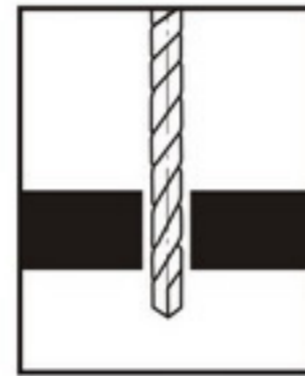
Hex Flange Head	Hex Head	Size	Drilled hole dia.	Max Fixing Thickness	Concrete compressive strength 3000psi	
					Embedment depth	Pull Out Load (kg)
MKNO06050	MKHO06050	M6X50	6	20	30	438
MKNO06075	MKHO06075	M6X75	6	45	30	438
MKNO06100	MKHO06100	M6X100	6	55	45	561
MKNO08060	MKHO08060	M8X60	8	20	40	877
MKNO08075	MKHO08075	M8X75	8	35	40	877
MKNO08100	MKHO08100	M8X100	8	40	60	1111
MKNO10060	MKHO10060	M10X60	10	10	50	1275
MKNO10075	MKHO10075	M10X75	10	25	50	1275
MKNO10100	MKHO10100	M10X100	10	25	75	1662
MKNO12075	MKHO12075	M12X75	12	15	60	1866
MKNO12100	MKHO12100	M12X100	12	40	60	1866
MKNO12150	MKHO12150	M12X150	12	60	90	1866

SPRING TOGGLE ANCHORS

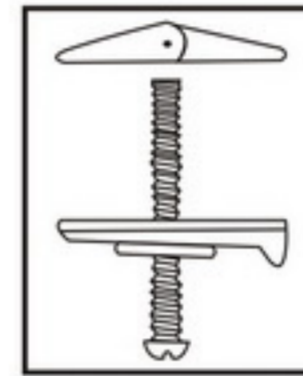
- Heavy gauge wings is a high capacity truss design.
- For fixing to cavity walls and ceiling of low structural strength.
- Any screw head and spring available at request.
- A safe working load should not exceed 25% of stated value.



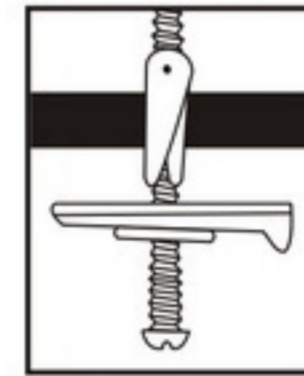
■ **Oval Headed Screw(AF41)**



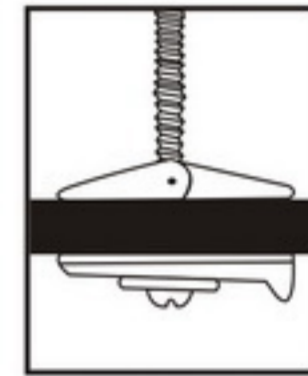
Drill a hole.



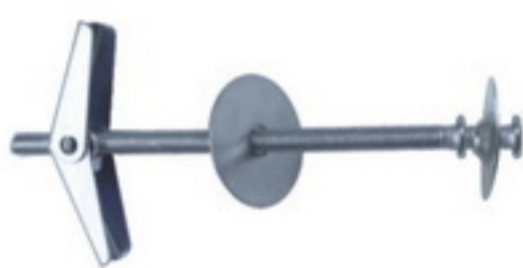
Place fixture over bolt and attach toggle head.



Push wing through drilled hole.



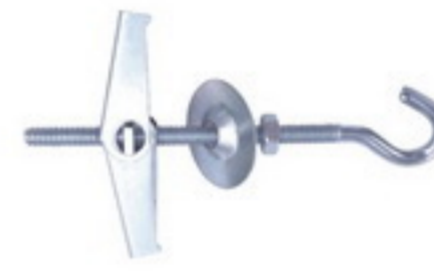
Tighten screw.



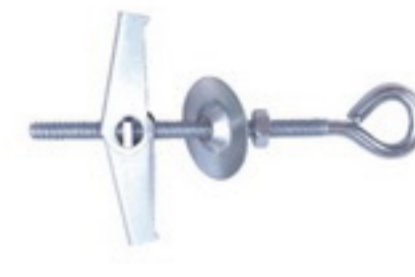
■ **Oval Headed Screw(AF40)**



■ **Threaded Bar(AF42)**



■ **Open Eye(AF44)**



■ **Closed Eye(AF43)**

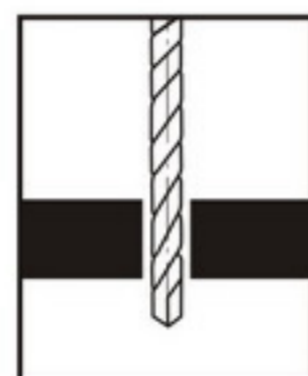
Order Code	Screw Size	Drill Dia.	Weight Kgs/1000pcs
TBMN3001	M6 x 80	16	39.6
TBMN3101	M6 x 100	16	42.0
TBMN3201	M6 x 102	16	48.6
TBMN3301	M6 x 102	16	45.6
TBMN4001	M4 x 100	12	15.8
TBMN4002	M5 x 95	14	22.8
TBMN4101	M4 x 90	12	14.5
TBMN4201	M5 x 81	14	19.2
TBMN4301	M5 x 90	14	25.5
TBMN4401	M4 x 100	12	17.8

SPRING TOGGLE ANCHORS

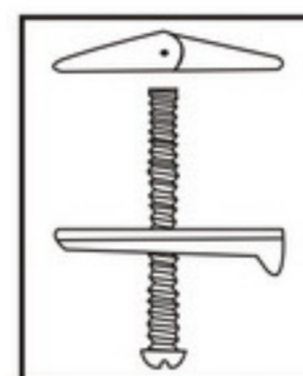


TOGGLE BOLTS

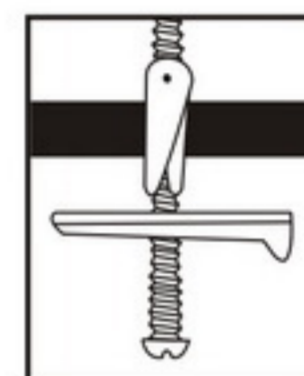
- Heavy gauge wings, high capacity truss design.
- Durable music wire spring for positive spring wing action.
- Easy tightening under load no building on screw.
- Any screw head available at request.
- The test values listed were obtained using 4000 psi concrete (no aggregate.)
- A safe working load should not exceed 25% of stated value.



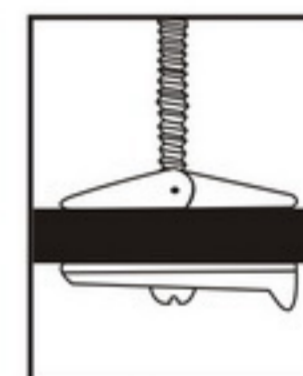
Drill a hole.



Place fixture over bolt and attach toggle head.



Push wing through drilled hole.



Tighten screw.

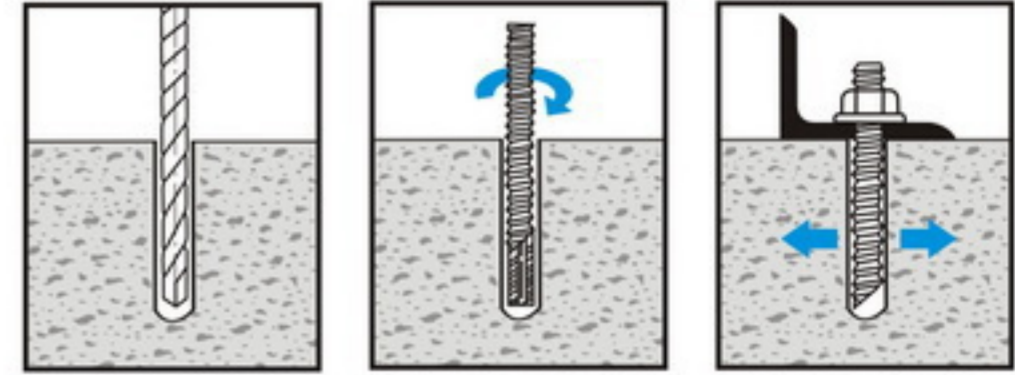
Order Code	Bolt Size	Drill Size	Qty. per Box/Ctn.	Weight kgs/1000pcs	Pull Out Load (kg)
TBIR-1802	1/8 x 2	3/8	100/500	5.6	130
TBIR-1803	1/8 x 3	3/8	100/500	6.8	130
TBIR-1804	1/8 x 4	3/8	100/500	9.0	130
TBIR-3162	3/16 x 2	1/2	50/250	14.8	200
TBIR-3163	3/16 x 3	1/2	50/250	18.1	200
TBIR-3164	3/16 x 4	1/2	50/200	22.7	200
TBIR-3165	3/16 x 5	1/2	50/200	25.0	200
TBIR-3166	3/16 x 6	1/2	50/200	28.4	200
TBIR-1403	1/4 x 3	5/8	50/200	29.5	500
TBIR-1404	1/4 x 4	5/8	50/200	34.0	500
TBIR-1405	1/4 x 5	5/8	50/200	38.6	500
TBIR-1406	1/4 x 6	5/8	50/200	43.1	500
TBIR-5163	5/16 x 3	7/8	25/100	59.0	500
TBIR-5164	5/16 x 4	7/8	25/100	63.6	500
TBIR-5165	5/16 x 5	7/8	25/100	72.6	500
TBIR-5166	5/16 x 6	7/8	25/100	81.7	500
TBIR-3803	3/8 x 3	7/8	25/100	72.6	550
TBIR-3804	3/8 x 4	7/8	25/100	81.7	550
TBIR-3805	3/8 x 5	7/8	25/100	90.8	550
TBIR-3806	3/8 x 6	7/8	25/100	104.0	550
TBIR-1203	1/2 x 3	1-1/4	25/25	168.0	680
TBIR-1204	1/2 x 4	1-1/4	25/25	191.0	680
TBIR-1206	1/2 x 6	1-1/4	25/25	227.0	680

TOGGLE WING ONLY

TW-180	1/8	3/8	100/1000	4.5	130
TW-360	3/16	1/2	100/1000	9.0	200
TW-140	1/4	5/8	100/1000	13.6	500
TW-516	5/16	7/8	50/500	31.8	500
TW-380	3/8	7/8	50/500	31.8	550
TW-120	1/2	1-1/4	50/250	86.0	680

CHEMICAL ANCHOR STUDS

- Studs in stainless steel and yellow zinc plated steel.
- Heavy duty fixing without radial influence of expansion forces can be used close to edges.
- Accurate drill depth is necessary.
- Fully loadable after the prescribed hardening-setting time.

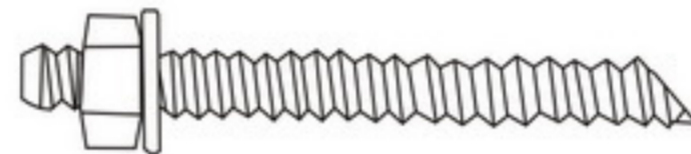
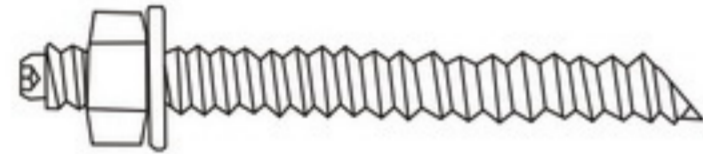


Drill a hole.

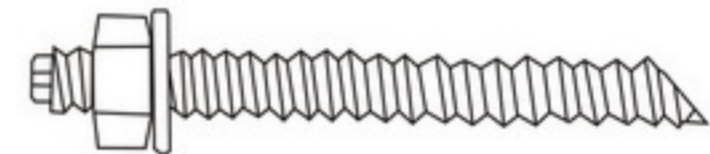
Clean & insert capsule Drive stud with hammer.


Do not disturb anchor during the specified cure time .

Head Type :



■ Flat Head



■ Hex Socket → Tool 

■ Hex Head → Tool 

Order Code	Stud Size	Max. Fixture Thickness	Hole Dia.	Hole Depth
		(mm)	(mm)	(mm)
XRCA-08	M8 x 110	16	10	80
XRCA-10	M10 x 130	22	12	90
XRCA-12	M12 x 160	30	14	110
XRCA-16	M16 x 190	38	18	125
XRCA-20	M20 x 260	70	25	170
XRCA-24	M24 x 300	65	28	210
XRCA-30	M30 x 380	70	35	280
XRCA-25	5/16 x 4 1/2	3/4	3/8	3 3/8
XRCA-30	3/8 x 5	1	7/16	3 5/8
XRCA-40	1/2 x 6 1/4	1 1/4	9/16	3 9/16
XRCA-50	5/8 x 7 1/2	1 3/4	3/4	6
XRCA-60	3/4 x 10 1/4	2 3/4	7/8	7 1/2
XRCA-70	7/8 x 11 3/4	3 3/4	1	8 1/2
XRCA-80	1 x 11 3/4	2 1/2	1 1/8	8 1/2
XRCA-100	1 1/4 x 14 1/8	2	1 7/16	11 1/2

Stainless steel and special length are available.



COUPLING NUT

- Available to make all types of Hex Coupling, Round Coupling and Reducing Nuts, can be installed with Sleeve
 - Anchor, Wedge Anchor and all Thread Rod, etc.
- All kinds of Coupling Nuts are produced by Multi-station cold forging with Auto-Tapping which increased the strength of Nuts.



COUPLING NUT

HEX TYPE INCH SIZE

Thread Size	Across Flat	Length
# 10-24	5/16	3/4
1/4-20	3/8	7/8
1/4-20	7/16	7/8~1-3/4
3/8-16	1/2	1~1-1/8
3/8-16	9/16	1~1-3/4
7/16-14	5/8	1~1-3/4
1/2-13	11/16	1-1/2~1-3/4
5/8-11	13/16	1-1/2~2-1/8
3/4-10	1	1-1/2
7/8-9	1-1/4	2-1/2
1-8	1-1/4	2-1/2

ROUND TYPE METRIC SIZE



Thread Size	Round Dia.Ø	Length
M4-P0.70	7.0	15~20
M5-P0.80	8.0	20~25
M6-P1.00	10.0	10~50
M8-P1.25	11.0	15~50
M10-P1.50	13.0	20~50
M12-P1.75	15.0	20~60

HEX TYPE METRIC SIZE

Thread Size	Across Flat	Length
	(mm)	(mm)
M5-P0.80	8.0	20~30
M6-P1.00	10.0	10~50
M8-P1.25	11.0	20~50
M8-P1.25	13.0	25~50
M10-P1.50	13.0	20~50
M10-P1.50	17.0	25~50
M12-P1.75	19.0	25~60
M16-P2.0	24.0	30~70
M20-P2.5	30.0	30~80
M24	36.0	50~80

HEX TYPE WHITWORTH THREAD

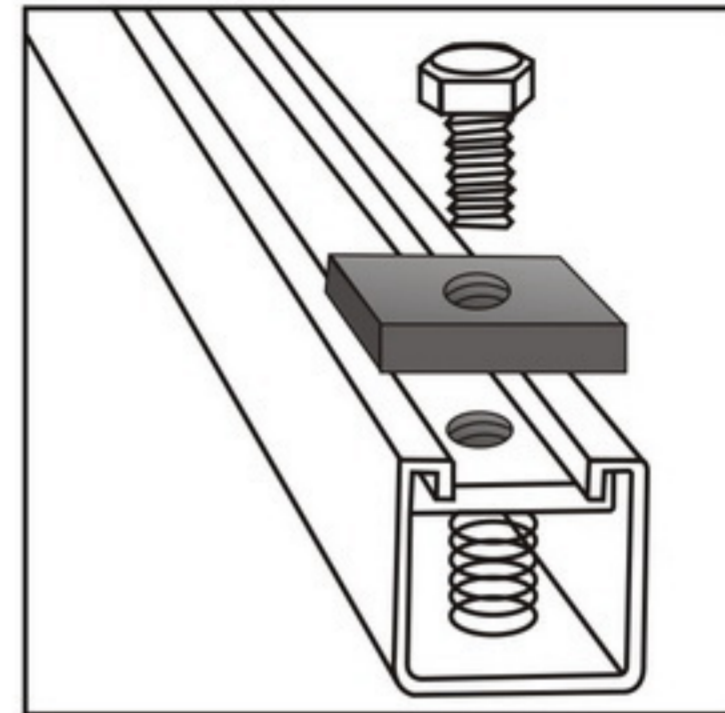
Thread Size	Across Flat	Length
	(mm)	(mm)
W5/16-18	12.0	25~50
W3/8-16	14.0	25~50
W1/2-12	19.0	30~50
W5/8-11	26.0	25~50

STRUT NUTS

- The Strut Nut is the key to the Strut System.
- Insert Strut Nut anywhere along the length of channel and attach the fitting to combine anchor channel a 90° turn.
- Easy to use, save time and work.

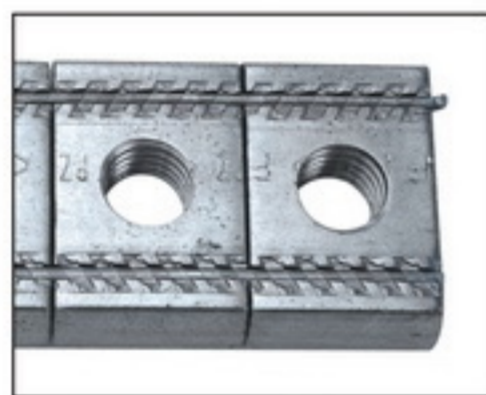


LONG SPRING



INSTALLATION

STRUT NUTS



WITHOUT SPRING



TWIRL TYPE



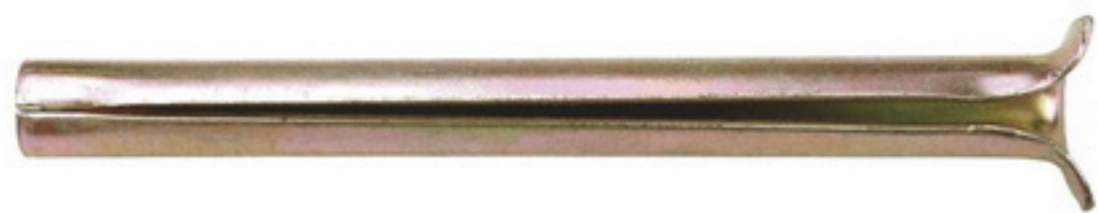
SHORT SPRING

Twirl Nut	Without Spring	With Spring	Thread Size	Width	Spring Long	Short	Thickness	Qty. per Ctn.	Weight kgs/ 1000pcs
SNIS-140	SN-140	SNS-140	1/4	0.75	1.38	3/4	0.25	200	29
SNIS-516	SN-516	SNS-516	5/16	0.75	1.38	3/4	0.31	200	35
SNIS-380	SN-380	SNS-380	3/8	0.75	1.38	3/4	0.38	200	40
SNIS-120	SN-120	SNS-120	1/2	0.75	1.38	3/4	0.50	200	45
SNIS-580	SN-580	SNS-580	5/8	1.12	1.38	3/4	0.38	200	60
SNIS-340	SN-340	SNS-340	3/4	1.12	1.38	3/4	0.38	200	50
SNIS-780	SN-780	SNS-780	7/8	1.12	1.38	3/4	0.38	200	49
				(mm)	(mm)	(mm)	(mm)		
SNMS-06	SN-06	SNS-06	M6	19.0	34.5	20	6.0	200	28
SNMS-08	SN-08	SNS-08	M8	19.0	34.5	20	6.0(8)	200	27
SNMS-10	SN-10	SNS-10	M10	19.0	34.5	20	10.0	200	43
SNMS-12	SN-12	SNS-12	M12	19.0	34.5	20	10.0(12)	200	43
SNMS-16	SN-16	SNS-16	M16	19.0	34.5	20	12.0	200	46

Stainless steel are available.



EXPRESS NAIL



EXPRESS NAIL / TIE WIRE NUT

Order Code	Size	Hole Dia.	Min. Hole Depth	Max. Fixture Thickness
EN05026	5 x 26	5	20	6
EN05050	5 x 50	5	20	30
EN06030	6 x 30	6	25	5
EN06040	6 x 40	6	30	10
EN06050	6 x 50	6	30	20
EN06060	6 x 60	6	30	30
EN06080	6 x 80	6	30	50
EN08070	8 x 70	8	40	30
EN08090	8 x 90	8	40	50
En08110	8 x 110	8	40	70
EN08120	8 x 120	8	40	80
EN08130	8 x 130	8	40	90
EN08150	8 x 150	8	40	110
EN08180	8 x 180	8	40	140

TIE WIRE NUT

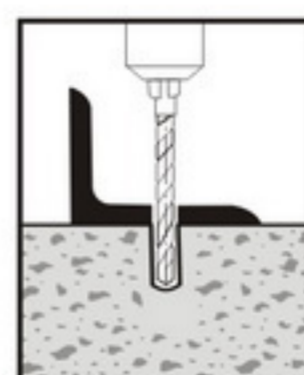


Order Code	Thread Size	Total Length	Hole Dia.
CNME06040	M6	40mm	5.2mm
CNME08040	M8	40mm	6.2mm
CNME08050	M8	50mm	6.2mm
CNME10050	M10	50mm	6.2mm
CNME12060	M12	60mm	7.2mm
CNME12070	M12	70mm	7.2mm
CNME16070	M16	70mm	9.2mm
CNME16080	M16	80mm	12.2mm
CNME16100	M16	100mm	9.2mm
CNME16120	M16	120mm	12.2mm
CNME20100	M20	100mm	12.2mm
CNME20120	M20	120mm	14.2mm
CNME24120	M24	120mm	14.2mm

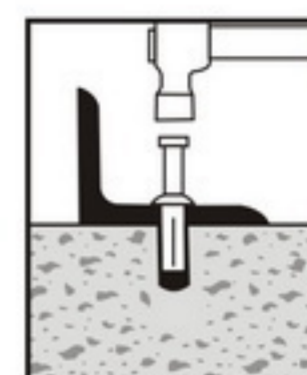
Stainless steel and special length are available.

HAMMER DRIVE ANCHORS

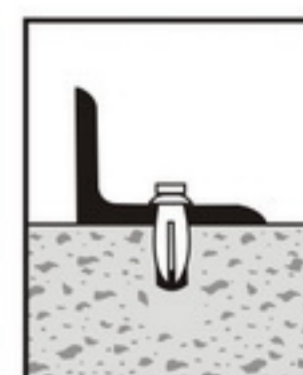
- Hammer Drive Anchor is a fast, easy-to-use expansion anchor made of special Zinc Alloy. The Nailing design eliminates the necessity for hole spotting, provides substantial holding power, and makes the bottom of anchor expand allowing and the fixture to be tightly locked in place.
- The test values listed below were obtained using 4000 psi concrete (no aggregate). A safe working load should not exceed 25% stated values.



Drill a hole with proper size drill through object to be fastened.



Insert.



Set by driving expander pin into head.

HAMMER DRIVE / EASY DRIVE ANCHORS

Order Code	Anchor Size	Max. Fixture Thickness	Qty. per Box/Ctn.	Weight kgs/1000pcs	Pull Out Load (kg)
DAHT-316078	3/16 x 7/8	1/4	100/5000	4.6	230
DAHT-14034	1/4 x 3/4	3/16	100/4000	7.3	270
DAHT-14100	1/4 x 1	1/4	100/3000	9.0	330
DAHT-14114	1/4 x 1-1/4	1/2	100/2000	10.5	370
DAHT-14112	1/4 x 1-1/2	3/4	100/2000	11.8	430
DAHT-14200	1/4 x 2	1-1/4	100/1500	15.0	520

EASY DRIVE ANCHORS (E-Z)



A



B

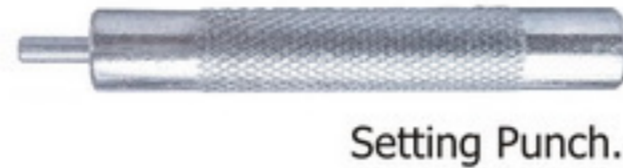


Order Code	Size	Weight Kgs/1000Pcs
ED14029-A	14 x 29	4.2
ED14038-B	14 x 38	7.2

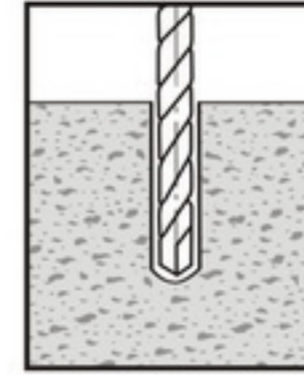


MACHINE SCREW ANCHORS

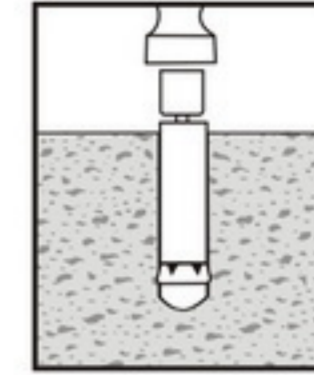
- The machine screw anchor was the original mechanical anchor design.
- The malleable lead shield allows for secure mounting.
- The test values listed were obtained using 4000 psi concrete (no aggregate).
- A safe working load should not exceed 25% of stated value.



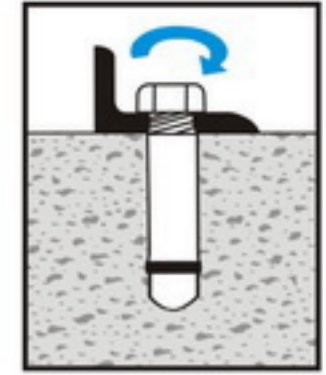
Setting Punch.



Drill a hole.



Insert anchor expand by setting punch.

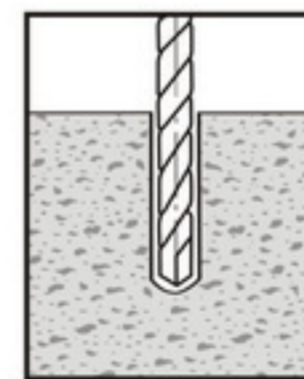


Insert fastener and tighten.

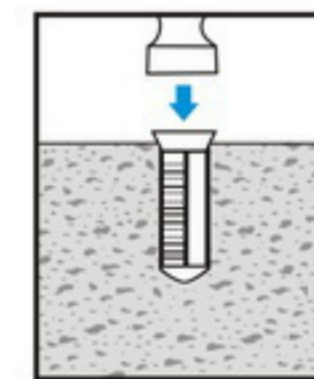
Order Code	Thread Size	Drill Dia.	Embedment Depth	Qty. per Box/Ctn.	Weight kgs/1000pcs	Pull Out Load (kg)	Setting Tool	Weight kgs/1000pcs
MAIL06	6-32	5-16	1/2	100/1000	4.54	263	ST 6	31.8
MAIL08	8-32	5-16	1/2	100/1000	4.54	300	ST 8	31.8
MAIL10	10-24	3/8	5/8	100/1000	9.00	372	ST 10	31.8
MAIL20	1/4-20	1/2	7/8	100/1000	20.70	500	ST 14	77.2
MAIL25	5/16-18	5/8	1	50/250	35.0	500	ST 56	127.0
MAIL30	3/8-16	3/4	1 1/4	50/250	64.0	1145	ST 38	195.0
MAIL40	1/2-13	7/8	1 1/2	50/250	86.0	1218	ST 12	300.0
MAIL50	5/8-11	1 1/8	2	50/50	177.0	1218	ST 58	513.0
MAIL60	3/4-10	1 1/4	2 1/4	50/50	250.0	3136	ST 34	630.0

LEAD WOOD SCREW ANCHORS

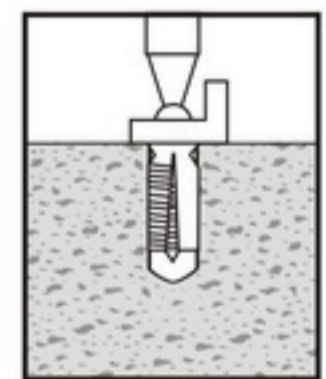
- Lead wood screw anchors can be used in solid masonry and concrete, ideal for shallow hold anchoring – as it expands, lead flows into any irregularities in the hole, making incorrect setting difficult.
- The test values listed were obtained using 4000 psi concrete (no aggregate.)
- A safe working load should not exceed 20% of stated value.



Drill a hole.



Insert anchor.



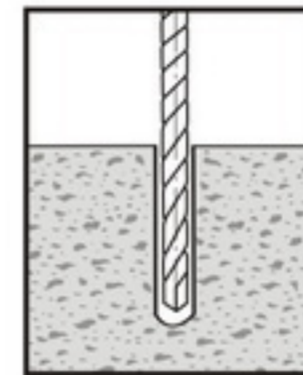
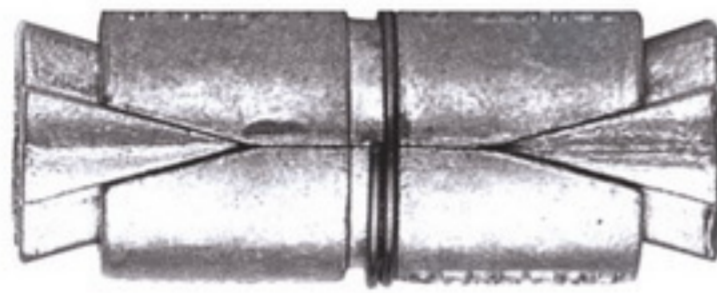
Insert screw and tighten.

Order Code	Anchor Size	Drill Dia.	Qty. per Box/Ctn.	Weight kgs/1000pcs	Pull Out Load (kg)
LAIL6806	6-8 x 3/4	100/1000	1/4	5.6	130
LAIL6810	6-8 x 1	100/1000	1/4	6.8	160
LAIL6814	6-8 x 1 1/2	100/1000	1/4	9.0	200
LAIL1006	10-14 x 3/4	100/1000	5/16	6.5	360
LAIL1010	10-14 x 1	100/1000	5/16	9.0	360
LAIL1014	10-14 x 1 1/2	100/1000	5/16	13.6	450
LAIL1610	16-18 x 1	25/250	3/8	10.0	570
LAIL1614	16-18 x 1 1/2	25/250	3/8	20.4	570

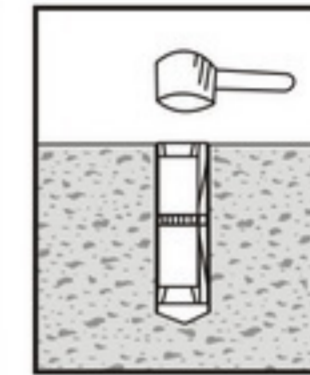
DOUBLE / SINGLE EXPANSION ANCHORS

DOUBLE

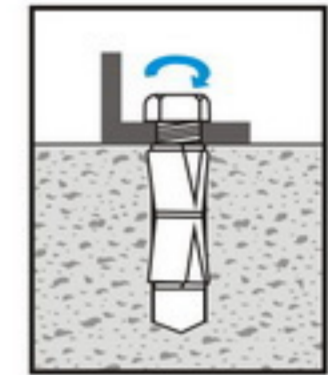
- Can be used for fastening into rock, concrete, brick, etc.
- Eliminates high stress points detrimental in fastening into materials of medium hardness, expands fully and has high gripping power.
- Ideal for shear loads or where bolt is subject to side pressure or vibration.
- Does not fracture, and permits fastenings at any length.
- The test values listed below were obtained using 4000 psi concrete (no aggregate).
- A safe working load should not exceed 25% of stated values.



Drill a hole.



Insert anchor.

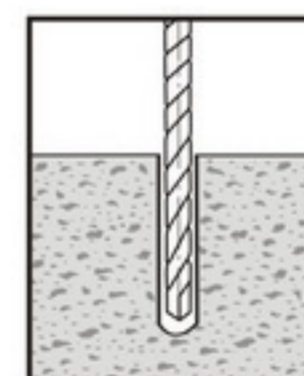


Insert screw and tighten.

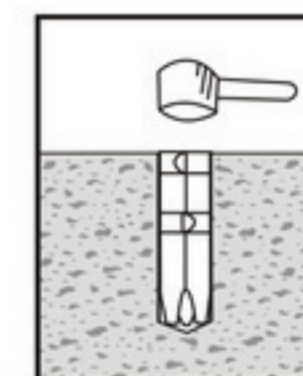
Order Code	Size	Min. Drill Dia.	Hole Depth	Qty. per Box/Ctn.	Weight kgs/1000pcs	Pull Out Load (kg)
EAID20	1/4-20	1/2	1-1/4"	50/500	18.2	333
EAID25	5/16-18	5/8	1-1/2"	50/500	34.0	486
EAID30	3/8-16	3/4	1-3/4"	50/250	57.0	586
EAID40	1/2-13	7/8	2-1/4"	25/250	82.0	733
EAID50	5/8-11	1	2-1/2"	25/100	114.0	1086
EAID60	3/4-10	1 1/4	3-1/2"	10/50	250.0	1533

SINGLE

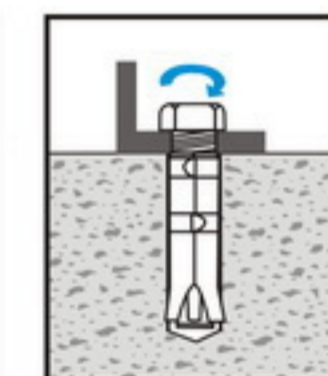
- Can be used for fastening into rock, concrete, brick, etc.
- If bolt is removed and replaced, holding power is unaffected.
- One-piece design, made of zinc alloy, is entirely rustproof.



Drill a hole.



Insert anchor.



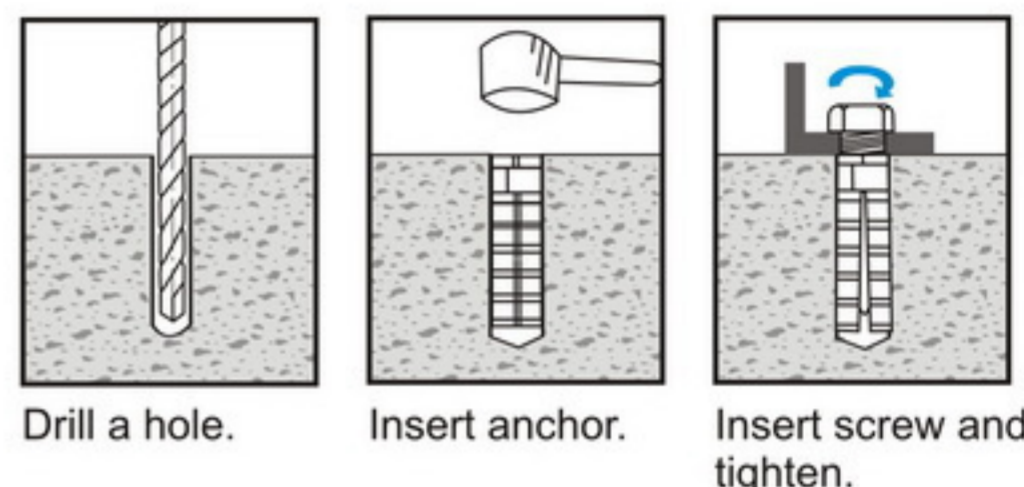
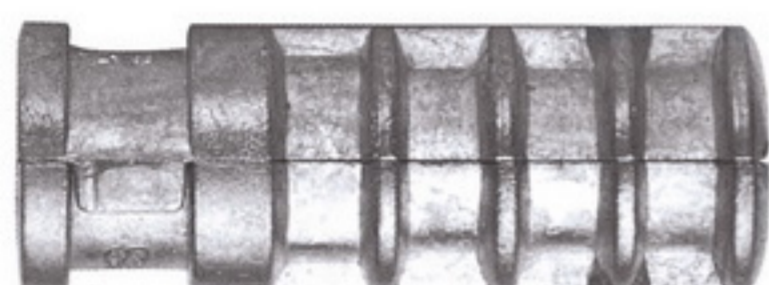
Insert screw and tighten.

Order Code	Size	Min. Drill Dia.	Hole Depth	Qty. per Box/Ctn.	Weight kgs/1000pcs	Pull Out Load (kg)
EAIS20	1/4-20	1/2	1-3/8	50/250	17.0	266
EAIS25	5/16-18	5/8	1-5/8	50/250	25.0	366
EAIS30	3/8-16	5/8	1-5/8	50/250	23.8	486
EAIS40	1/2-13	7/8	2-1/2	25/125	69.0	620
EAIS50	5/8-11	1	2-3/4	25/125	109.0	800
EAIS60	3/4-10	1 1/4	2-7/8	10/100	195.0	1000



LAG SCREW ANCHORS

- Can be used in all types masonry from concrete to brick.
- Unique four-way expansion assures a tight grip even in out-of-round holes.
- Short style for hard masonry, long style for soft.
- Rust-proof.
- The test values listed were obtained using 4000 psi concrete (no aggregate).
- A safe working load should not exceed 25% of stated value.



SHORT TYPE

Order Code	Anchor Size	Drill Dia.	Qty. Per Box/Ctn.	Weight kgs/1000pcs	Pull Out Load (kg)
LSIS20	1/4	1/2	50/500	13.6	139
LSIS25	5/16	1/2	50/500	13.6	154
LSIS30	3/8	5/8	50/500	30.6	340
LSIS40	1/2	3/4	50/500	42.0	386

LONG TYPE

LSIL20	1/4	1/2	50/500	18.0	185
LSIL25	5/16	1/2	50/500	23.8	231
LSIL30	3/8	5/8	50/500	43.0	401
LSIL40	1/2	3/4	50/500	64.7	479
LSIL50	5/8	7/8	25/125	100.0	500
LSIL60	3/4	1	25/100	111.0	590

CEILING ANCHORS

- According to DIN 4102, Part 4, allow to fasten fire protection ceiling.
- Also for light lower deck and ceiling covering in haulzone.
- Produce with punching in a undercut hole.
- Special annealed steel.



Order No.	Anchor Size	Anchor Dia.	Fixture Thickness	Min. Hole Depth	Anchor Length
HCMF06400	6 x 40	6	5	30	40
HCMF06600	6 x 60	6	8	30	60

NYLON FRAME/HAMMER FIXING

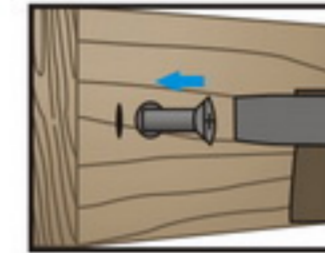
- For fixing of concrete, solid bricks, perforated bricks, hollow blocks.
- The fixings are manufactured from the same high-grade and quality-monitored polyimide (nylon) which is also used for the frame fixings with general building inspectorate approval.
- The material is temperature resistant (-40° to +80°C.)
- Pre-assembled for quick and easy installation. High holding power.



Nylon Hammer Fixing with Drive Screw (NHMN)



Drill a hole.



Insert anchor and expand by hammer.



Fastening is complete.



Nylon Frame Fixing with Wood Screw (NFSH)

HEAD STYLES



■ Countersunk head



■ Flat head



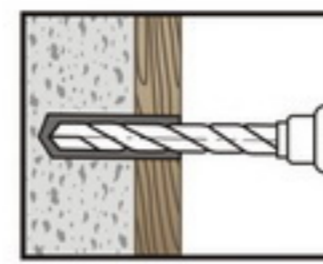
■ Truss head

NHMN	NFSH	Screw Size	Drill Dia.	Min. Drill-Hole Depth With Push-Through Assembly	Min. Concrete Depth	Pull Length	Max. Useful Length
5 x 30Z	5 x 30Z	3.5 x 38	5	45	25	30	5
5 x 35Z	5 x 35Z	3.5 x 43	5	50	25	35	10
5 x 40Z	5 x 40Z	3.5 x 48	5	55	25	40	15
5 x 45Z	5 x 45Z	3.5 x 53	5	60	25	45	20
5 x 50Z	5 x 50Z	3.5 x 58	5	65	25	50	25
6 x 40Z	6 x 40Z	4 x 48	6	55	30	40	10
6 x 50Z	6 x 50Z	4 x 58	6	65	30	50	20
6 x 60Z	6 x 60Z	4 x 68	6	75	30	60	30
6 x 70Z	6 x 70Z	4 x 78	6	85	30	70	40
6 x 80Z	6 x 80Z	4 x 88	6	95	30	80	50
8 x 60Z	8 x 60Z	5 x 68	8	75	40	60	20
8 x 80Z	8 x 80Z	5 x 88	8	95	40	80	40
8 x 100Z	8 x 100Z	5 x 108	8	115	40	100	60
8 x 120Z	8 x 120Z	5 x 128	8	135	40	120	80
8 x 135Z	8 x 135Z	5 x 143	8	150	40	135	95
10 x 80Z	10 x 80Z	7 x 90	10	95	50	80	30
10 x 100Z	10 x 100Z	7 x 110	10	115	50	100	50
10 x 135Z	10 x 135Z	7 x 145	10	150	50	135	85
10 x 160Z	10 x 160Z	7 x 170	10	175	50	160	110
10 x 230Z	10 x 230Z	7 x 240	10	245	50	230	180

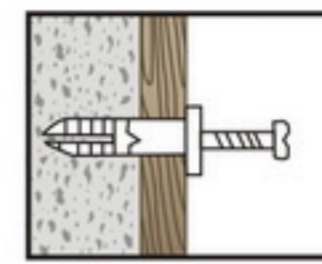


NYLON NAIL ANCHORS

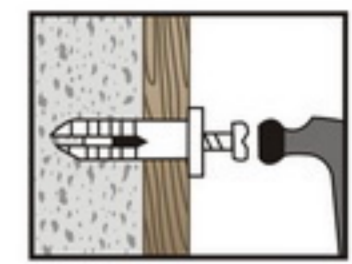
Nylon Nail Anchors are ideal for a wide variety of light load fastening in wood, hardboard, plaster, metal, cinder block, brick, slate, marble, plastic, tile, glass, and concrete. Its unique design allows the nail to expand the anchor uniformly in the hole.



Drill a hole.



Insert nylon nail anchor.



Drive expander pin flush with one hammer.



ROUND HEAD

Order Code	Anchor Size
NNR525	5.0 x 25
NNR540	5.0 x 40
NNR6525	6.5 x 25
NNR6540	6.5 x 40
NNR6550	6.5 x 50

Order Code	Anchor Size
NR15100	3/16 x 1
NR15150	3/16 x 1 1/2
NR20100	1/4 x 1
NR20150	1/4 x 1 1/2
NR20200	1/4 x 2
NR20160	1/4 x 1 3/4
NR20300	1/4 x 3
NR20400	1/4 x 4



MUSHROOM HEAD

Order Code	Anchor Size
NNM520	5.0 x 20
NNM525	5.0 x 25
NNM6520	6.5 x 20
NNM6525	6.5 x 25
NNM6540	6.5 x 40
NNM6550	6.5 x 50
NNM6575	6.5 x 75

Order Code	Anchor Size
M15100	3/16 x 1
M15150	3/16 x 1 1/2
M20100	1/4 x 1
M20150	1/4 x 1 1/2
M20160	1/4 x 1 3/4
M20200	1/4 x 2
M20300	1/4 x 3
M20400	1/4 x 4



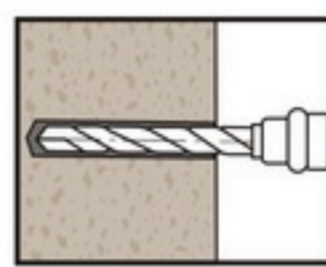
FLAT HEAD

Order Code	Anchor Size
NNF525	5.0 x 20
NNF540	5.0 x 40
NNF6525	6.5 x 25
NNF6540	6.5 x 40
NNF6550	6.5 x 50
NNF6570	6.5 x 75

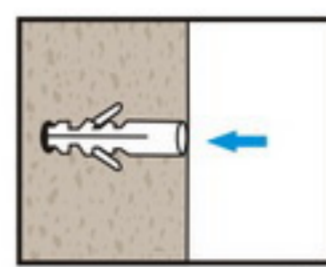
Order Code	Anchor Size
NF15075	3/16 x 3/4
NF15100	3/16 x 1
NF20075	1/4 x 3/4
NF20100	1/4 x 1
NF20150	1/4 x 1 1/2
NF20200	1/4 x 2
NF20300	1/4 x 3
NF20400	1/4 x 4
NF20160	1/4 x 1 3/4

SCREW PLUG

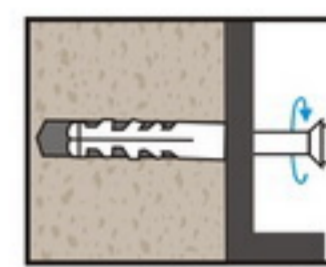
It's ideal to be used for building materials, even thin. It endures extreme temperature (-40° to +80°C), rust, corrosion, aging, and chemical affect. Meanwhile it's good at electric insulation, tensibility, and high pressure. The structure designed with gear can prevent itself from sliding in the hole.



Drill a hole.



Insert screw plug.

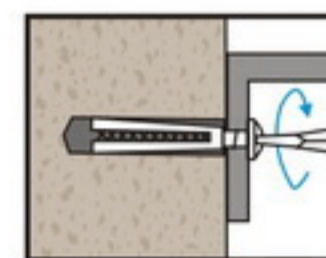
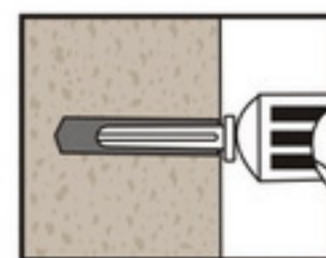
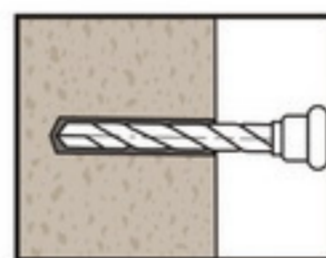


Expand by tightening nut.

Order Code	Anchor Size	Drill Size	Anchor Size
SP0525	4 x 20	Ø4	Ø2.0-3
SP0525	5 x 25	Ø5	Ø2.5-4
SP0630	6 x 30	Ø6	Ø3.5-5
SP0735	7 x 35	Ø7	Ø4.0-5
SP0840	8 x 40	Ø8	Ø4.5-6
SP1050	10 x 50	Ø10	Ø6.0-8
SP1260	12 x 60	Ø12	Ø8.0-10
SP1475	14 x 75	Ø14	Ø10-12
SP1680	16 x 80	Ø16	Ø12-14

PLASTIC CONICAL ANCHORS

The Plastic Conical Anchor is a plastic anchor designed for use with lightweight fixtures. It can be used in concrete, block, brick and wallboard. It is injection molded from an engineered plastic and is designed to be used in conjunction with a sheet metal or wood screw.



Order Code	O.D.	Length (Inch)
PC05060	5	3/4
PC06700	6	7/8
PC08100	8	1
PC10130	10	1-3/8

SCREW PLUG / PLASTIC CONICAL ANCHORS

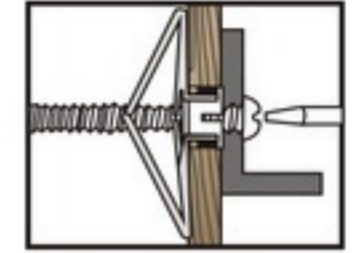
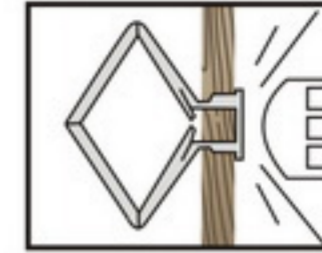
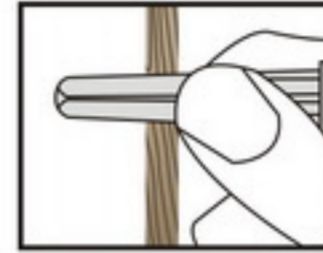


NYLON / PVC PLASTIC ANCHORS

The Plastic Toggle Anchor is a screw actuated hollow wall anchor for use in paneling, wallboard and solid masonry. In solid base materials, the anchor can be used by removing the outer wings. The Plastic Toggle Anchor is designed to develop a triangulated clamp behind the wall of the hollow base material.



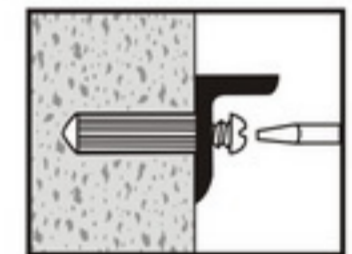
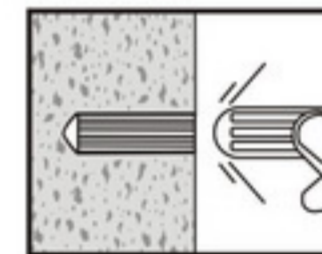
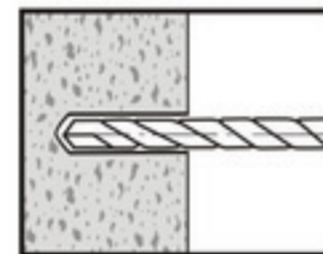
PLASTIC TOGGLE ANCHORS



Order Code	Wall Thickness to be Fastened	Hole Size
PT6	1/8-1/4 (3-6mm)	5/16 (8mm)
PT9	1/4-3/8(6-9mm)	5/16(8mm)
PT13	3/8-1/2 (9-13mm)	5/16 (8mm)
PT19	5/8-3/4(16-19mm)	5/16 (8mm)
PT25	7/8-1(22-25mm)	5/16(8mm)

PLASTIC WALL PLUG (P.V.C.)

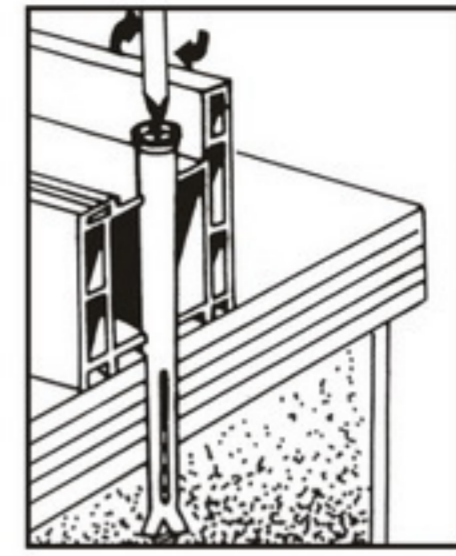
The Plastic Wall Plug is designed for light duty fastening applications. It is injection molded from a ductile plastic and is designed to be used with sheet metal or wood screws. Longitudinal ribs on the anchor body prevent it from tuning during tightening of the screw. This inexpensive plastic screw anchor comes color-coded by diameter for easy applications where holding power is not a critical factor. It should not be used overhead.



Order Code	Color O.D	Length (mm)	Length (inch)
PW0425	Yellow Ø4	25	1
PW0525	White Ø5	25	1
PW0535	White Ø5	35	1-3/8
PW0625	Red Ø6	25	1
PW0630	Red Ø6	30	1-3/16
PW0635	Red Ø6	35	1-3/8
PW0650	Red Ø6	50	2
PW0725	Green Ø7	25	1
PW0730	Green Ø7	30	1-3/16
PW0735	Green Ø7	35	1-3/8
PW0750	Green Ø7	50	2
PW0825	Blue Ø8	25	1
Pw0835	Blue Ø8	35	1-3/8
PW0850	Blue Ø8	50	2
PW0855	Blue Ø8	55	2-3/16
PW1035	Orange Ø10	35	1-3/8
PW1050	Orange Ø10	50	2
PW1060	Orange Ø10	60	2-18

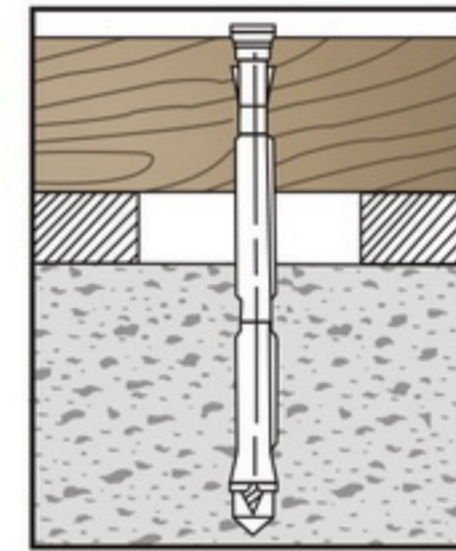
NYLON (METAL) FRAME ANCHORS

- The frame anchors for window and door frames.
- For fixing of plastic, wood, aluminum window and door frames to concrete, brick, hollow blocks and cheker brick. Yellow Zinc plated passivated steel screw with special pozi.
- Drive head adapted to receive push-in caps of various colors. Cap colors: white, dark brown, gray.



NYLON STYLE

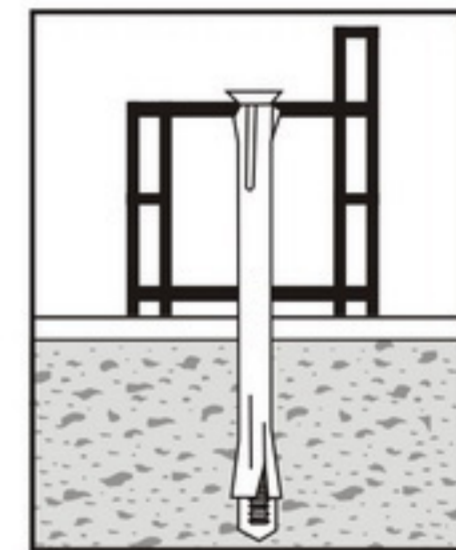
- Tapered expansion nut made from fiberglass reinforced nylon.
- High grade nylon sleeve fitting with steel wood screw and color cap.



Order Code	Anchor Size	Drill Dia.	Sleeve Length	Machine Screw	Hole Depth	Max. Fixing Length	Weight kgs/1000pcs
FANB-08100	Ø 8 x 100	8	100	5 x 110	50	60	16.3
FANB-08140	Ø 8 x 140	8	140	5 x 150	90	60	23.4
FANB-10075	Ø 10 x 75	10	75	6 x 80	15	70	17.4
FANB-10100	Ø 10 x 100	10	100	6 x 110	40	70	23.9
FANB-10120	Ø 10 x 120	10	120	6 x 130	60	70	29.3
FANB-10140	Ø 10 x 140	10	140	6 x 150	80	70	34.9
FANB-10165	Ø 10 x 165	10	165	6 x 175	105	70	41.2

METAL STYLE

- Tapered expansion nut made from high grade zinc alloy die casting.
- Galvanized steel sleeve fitting with steel machine screw and colors cap.



Order Code	Anchor Size	Drill Dia.	Sleeve Length	Machine Screw	Hole Depth	Max. Fixing Length	Weight kgs/1000pcs
FAMB-08072	Ø 8 x 72	8	72	5 x 85	50	42	21.0
FAMB-08092	Ø 8 x 92	8	92	5 x 105	50	62	26.6
FAMB-08112	Ø 8 x 112	8	112	5 x 125	50	82	31.8
FAMB-08132	Ø 8 x 132	8	132	5 x 145	50	102	35.6
FAMB-08172	Ø 8 x 172	8	152	5 x 185	50	142	45.2
FAMB-10072	Ø 10 x 72	10	70	6 x 85	50	40	33.0
FAMB-10092	Ø 10 x 92	10	90	6 x 105	50	60	39.0
FAMB-10112	Ø 10 x 112	10	110	6 x 125	50	80	46.0
FAMB-10132	Ø 10 x 132	10	130	6 x 145	50	100	53.0
FAMB-10152	Ø 10 x 152	10	150	6 x 165	50	140	59.0
FAMB-10182	Ø 10 x 182	10	180	6 x 195	50	150	68.0

NYLON (METAL) FRAME ANCHORS



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