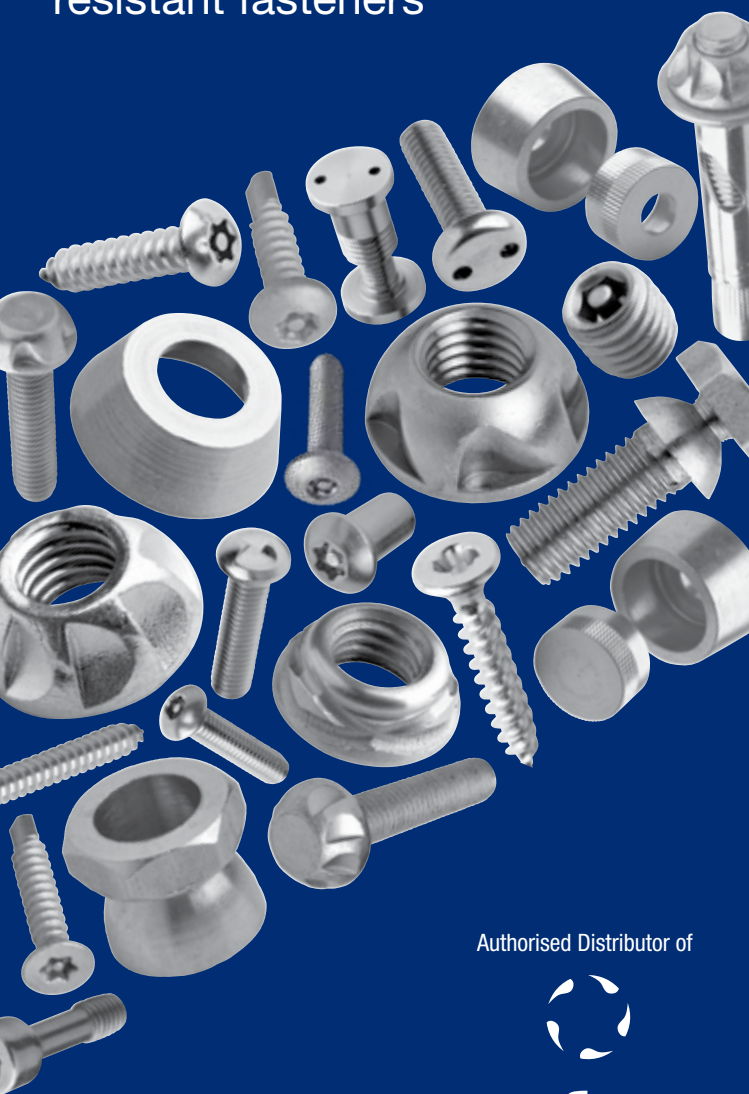




Security & tamper  
resistant fasteners



Authorised Distributor of



**Hafren**  
security fasteners

Edition 4

# What are security & tamper resistant fasteners?

Special headed screws, nuts & bolts which are either permanently fixed or can only be removed using a matching driver tool.

## Why do I need them?

**Security...** The need to safeguard against theft and vandalism is increasingly an essential part of many design specifications.

**Safety...** Deal with stringent H&S laws, keep the public safe.

**Aesthetics...** Security fasteners are not only secure and vandal-resistant, but aesthetically pleasing to the eye complementing their surrounding environment.

# What are the consequences of not using them?

- |                     |                  |
|---------------------|------------------|
| insurance claims    | theft            |
| crime               | liability claims |
| lost revenue        | pilferage        |
| terrorism           | vandalism        |
| unauthorised access | trespassing      |
| reputation          |                  |

Don't risk it, secure it.

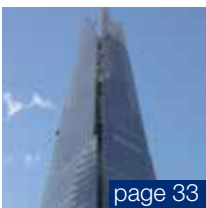
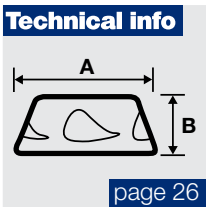
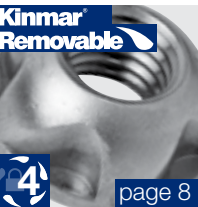


stamping out the impact of theft globally

**TR Fastenings** - International specialist in the design, engineering, manufacture and distribution of high quality industrial and Cat C fastenings principally to major global assembly industries.

TR Fastenings has 33 business locations within the UK, Asia, Europe and the USA including, eight high volume, high-quality and cost-effective manufacturing sites. TR supplies to over 5000 customers in 60 countries worldwide.

As a full-service provider to multinational OEMs and Tier 1 companies spanning several sectors, TR delivers comprehensive support to its customers across every requirement, from concept design through to technical engineering consultancy, manufacturing, supply management and global logistics.





# Security Ratings

## Tamper-resistant fastener security ratings explained.

Security fasteners are an essential component for protecting property and keeping people safe. But what level of security fastener should you specify to protect an assembly from theft/tampering?

‘It all depends on what your application is and how important it is to you that it is protected.’

To help you decide on the right solution for your application we have created this simple security fastener guide.

We have categorised our fasteners into 1-5 levels, 1 being the most popular/commonly used ‘Entry Level Security’ and 5 being the ‘Maximum Security Level’ available.

There can be serious consequences for not using the correct level of security fastener, which is why it’s so important to get it right. Used correctly, security fasteners help:

- Prevent theft and deter vandalism
- Protect the general public from harm
- Create cost savings
- Maintain civil and social order
- Reduce risk of litigation cases



**Entry level security**  
Fasteners offer protection from vandalism and opportunistic crime. Driver tools can be purchased by the general public.



**Enhanced security**  
Fasteners are less common and less recognisable. Driver tooling is non-standard and harder for the general public to buy.



**Medium security**  
Rarer, less well-known products. Supply of driver tooling is controlled, less readily available to buy, enhancing the security of the assembly.



**High security**  
Either 1-way permanent fixings, or rare Hafren-patented high security products requiring specialist tooling to remove (only available from Hafren approved distributors).



**Maximum security**  
Highest security available. Products are either 1-way permanent fixings, or require bespoke exclusive, custom made driver tools to remove.





This patented permanent nut requires a matching driver socket for installation giving you guaranteed torque levels and can be re-torqued if required. Not governed by a shear point and leaving no unplated surfaces, it leaves a clean smart finish.

- Stocked in Case Hardened Steel Zinc Plated (CR-3) and Geomet®, also stocked in A2 Stainless Steel
- Kinmar® Permanent drive is also stocked in bolt form M8 x 25mm / M8 x 40mm (Zinc Plated & Geomet®)
- Other materials and finishes available to order subject to minimum order quantities

### How it works:



### Stock Range:

Box Qty 100

Material	Size	M5	M6	M8	M10	M12
Zinc Plated		■	■	■	■	■
Geomet®				■	■	■
A2 Stainless		■	■	■	■	■
Driver Size		KM6P	KM6P	KM8P	KM10P	KM12P



This patented removable nut requires a matching driver socket for installation and removal. This cost effective nut has a smooth aesthetically pleasing design which makes it an extremely versatile nut.

- Stocked in Case Hardened Steel Zinc Plated (CR-3) and Geomet®, also stocked in A2 Stainless Steel
- Kinmar® Removable drive is also stocked in bolt form M8 x 25mm / M8 x 40mm (Zinc Plated & Geomet®)
- Other materials and finishes available to order subject to minimum order quantities

### How it works:



### Stock Range:

Box Qty 100

Material	Size	M5	M6	M8	M10	M12
Zinc Plated		■	■	■	■	■
Geomet®			■	■	■	■
A2 Stainless		■	■	■	■	■
Driver Size		KM6R	KM6R	KM8R	KM10R	KM12R

The Nogo™ is a 2-part enclosure offering the highest security for any nut or bolt.

This patented product doesn't require any specialist tools; you simply hammer the cap into the base making access to the enclosed nut or bolt near impossible.

- Has been Home Office approved and has won the Sold Secure Silver Award
- Stocked in Case Hardened Steel Zinc Plated (CR-3)



**TYPE 1:**  
For bolts and screws

**TYPE 2:**  
For protruding studs

## How it works:

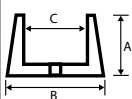


## Stock Range:

Type \ Size	M5	M6	M8	M10	M12
Type 1	■	■	■	■	■
Type 2	■	■	■	■	■

## Nogo™ Technical info (mm)

LENGTH	Measurements (mm)				
	M5	M6	M8	M10	M12
A	12.0	13.0	14.0	18.0	20.0
B	20.0	22.0	28.4	31.8	35.8
C	12.8	14.9	19.9	24.3	26.2



Thread forming screws manufactured with a 'unique' 6-Lobe Pin drive.

Thread forming screws (sometimes known as 'Self threading'). Features a tri-lobular thread body that has a triangular cross-section rather than a circular one. The tri-lobular thread eliminates the need for nuts and pre-tapped holes, reducing labour costs & installation time.

- Stocked in Geomet® 500 B Coated Case Hardened Steel
- Tri-lobular thread resists loosening caused by vibration
- Ideal for fencing and the automotive industry.



Unique Power6™ Tooling  
(Not compatible with standard 6-Lobe Pin tooling)



Unique 6-Lobe Pin drive. For improved security.



Not standard 6-Lobe Pin.



## Stock Range:

Box Qty 100

Gauge	Length		DRIVER SIZE
	35mm	45mm	
M8	■	■	P6-40
Power6™ Technical info (mm)			M8
Pan Head			4.1
			16.0

Other sizes available to order

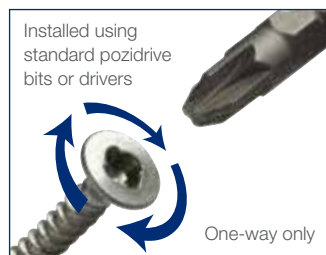


This drive system only operates in a clock-wise motion leaving a permanent finish. Ideal for easy and fast application using standard pozi screwdrivers.

- Stocked in Case Hardened Steel Zinc Plated (CR-3)
- Available in Twinthread Woodscrews
- Other materials, finishes and thread types can be manufactured to order - subject to minimum order quantities



## How it works:



## Stock Range:

Countersunk | Zinc Plated Twinthread Woodscrews

Box Qty 200

Length		3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	DRIVER SIZE
Gauge		19mm	25mm	32mm	38mm	50mm	63mm	75mm	
6	3.5mm	■	■						PZ2
8	4.2mm	■	■	■	■	■			PZ2
10	4.8mm		■	■	■	■	■		PZ2
12	5.5mm				■	■	■	■	PZ3

## Sentinel® technical information (mm)

		TWINTHREAD WOODSCREWS			
		No. 6	No. 8	No. 10	No. 12
		3.5mm	4.2mm	4.8mm	5.5mm
CSK HEAD		6.8	8.2	9.8	11.7
		2.5	2.9	3.5	4.2



Successor to the Resistorx, the 5-Lobe Pin has 5 lobes instead of 6, providing a higher level of security.

- Stocked in A4-70 Stainless Steel Available in A2 Stainless Steel
- Stocked in Button Head and Countersunk Head. Self Tapper and Machine Screws.
- Made to measure specials available



5-Lobe Pin for extra security



Not standard 6-Lobe Pin drive

Button Head  
A4-70 Self Tapper

Countersunk Head  
A4-70 Self Tapper

Countersunk Head  
A4-70 Machine Screw

Button Head  
A4-70 Machine Screw

5 Lobe Pin Tooling



Stocked in  
A4-70  
Stainless  
Steel

## Stock Range:

Countersunk / Button Head | AB Type Self Tapping Screws

Box Qty 100

Length		1/2"	3/4"	1"	1 1/2"	2"	DRIVER SIZE
Gauge		13mm	19mm	25mm	38mm	50mm	
6	3.5mm	■	■	■			F15
8	4.2mm		■	■	■	■	F20
10	4.8mm		■	■	■	■	F25

Countersunk / Button Head | Metric Machine Screws

Box Qty 100

Length		6 mm	8 mm	10 mm	12 mm	16 mm	20 mm	25 mm	30 mm	40 mm	50 mm	DRIVER SIZE
Gauge												
M3		■		▼	▲							F10
M4			■	■	■	■	■	■				F20
M5			▼	■	■	■	■	■	■	■		F25
M6					■	■	■	■	■	■	▲	F30
M8							■		▲	■	▲	F40

Head Styles

▼ Countersunk only

▲ Button Head only

■ Countersunk & Button Head



This security drive ensures that each and every customer has their own unique 'one-of-a-kind' drive socket.

As there are millions of variations to the Solok™ drive socket, your driver key will be specific to you, therefore enhancing the level of security. Every new user gets a Solok™ code to which their screws and tools are made, meaning even somebody else's Solok™ tools will not fit screws made to your code.

- Engineered to keep other driver bits out
- Full range of Self Tapping and Metric Machine Screws available made to your unique drive code
- Manufactured in Carbon Steel and Stainless Steel
- Available to order in various finishes and other thread types - subject to minimum order quantities



## How it works:

Installed using unique-to-you driver tool



## Sizes available to order:

**Varying minimum order quantities (MOQ) and tooling charges apply.**

Countersunk or Button Head | Self Tapping Screws | From 4 x 3/4" (2.9 x 9.5mm) to 14 x 2" (6.3 x 50mm) **MOQ 2500**

Countersunk or Button Head | Machine Screws | From M3 x 6mm to M16 x 100mm **MOQ (M3 to M6 2500), (M8 2000), (M10 1500), (M12 1000)**

A simple conical collar which renders a standard hexagon nut or bolt tamper resistant.

The Armour Ring™ can be applied to any British or DIN standard hexagon nuts or bolts using a standard hammer or Armour Ring™ installation tool. It leaves a smooth clean finish which is often favoured by Health & Safety executives and isn't governed by a torque level like some one-way fasteners.

- Has been Home Office approved
- Stocked in Steel Zinc Plated (CR-3) and 303 S31 Stainless Steel



## How it works:



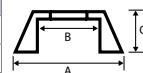
## Stock Range:

Box Qty 100

Size	M6	M8	M10	M12	M16	M20
Material						
Zinc Plated	■	■	■	■	■	
Stainless Steel	■	■	■	■	■	■

## Armour Ring™ Technical info (mm)

Size	M6	M8	M10	M12	M16	M20
Dimensions						
A	15.8	20.0	26.6	33.0	41.2	51.0
B	10.5	14.2	18.8	20.8	26.5	33.5
C	6.8	7.7	9.8	12.3	16.0	19.0





# Scroll™ Nut

High security removable nut with a unique 'Scroll' drive.



The rounded design of this nut gives no sharp angles to provide grip for normal hand tools. It can only be installed and removed using the matching Scroll™ driver socket. Patented Scroll™ design is interesting and pleasing to the eye.

- Stocked in 303 S31 Stainless Steel
- Scroll™ drive available to order in bolt form
- The smallest and largest security nut available from stock – M3 to M30

## How it works:



## Stock Range:

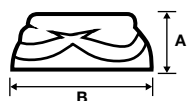
Box

Qty 50

Size	M3	M4	M5	M6	M8	M10	M12	M16	M20	M24	M30
Material	■	■	■	■	■	■	■	■	■	■	■
Stainless Steel	■	■	■	■	■	■	■	■	■	■	■

## Scroll™ Nut Technical info (mm)

A	3.2	3.2	4.2	5.5	6.4	7.2	8.7	11.0	12.8	14.2	19.0
B	7.9	7.9	9.5	12.7	15.8	19.0	22.2	28.5	34.9	38.0	44.0



# 2-Hole

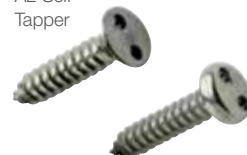
Popular aesthetically pleasing drive for any two-way application.



This drive system, sometimes known as Snake Eye® or Pig Nose is designed for low to medium torque applications. It has 2 holes drilled into the head which requires a unique 2-pin matching driver to install and remove it.

- Full range of Self Tapping and Metric Machine Screws stocked in A2 Stainless Steel
- Other styles of fasteners available in the 2-Hole drive system: Barrel Nuts, Male & Female Bolts, Grub Screws, Glass Screws, Large Disc Head Screws.

Countersunk A2 Self Tapper

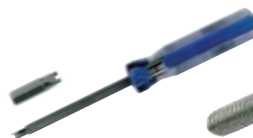


Pan Head A2 Self Tapper

Countersunk A2 Machine Screw



Pan Head A2 Machine Screw



2-Hole Tooling



Raised Countersunk A2 Machine Screw

## Stock Range:

Countersunk / Pan Head | AB Type Self Tapping Screws

Box Qty 100

Length	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	DRIVER SIZE
Gauge	9.5mm	13mm	16mm	19mm	25mm	32mm	38mm	50mm	63mm	
4	2.9mm	■	■	■	■	■	■	■	■	TH3
6	3.5mm	■	■	■	■	■	■	■	■	TH4
8	4.2mm	■	■	■	■	■	■	■	■	TH5
10	4.8mm	■	■	■	■	■	■	■	■	TH6
12	5.5mm	■	■	■	■	■	■	■	■	TH7
14	6.3mm	■	■	■	■	■	■	■	■	TH8

Countersunk / Raised Countersunk / Pan Head | Metric Machine Screws

Box Qty 100

Length	6 mm	8 mm	10 mm	12 mm	16 mm	20 mm	25 mm	30 mm	35 mm	40 mm	45 mm	50 mm	60 mm	DRIVER SIZE
Gauge														
M3	■	■	■	■	■	■	■	■	■	■	■	■	■	TH3
M3.5	■	■	■	■	■	■	■	■	■	■	■	■	■	TH4
M4	■	■	■	■	■	■	■	■	■	■	■	■	■	TH5
M5	■	■	■	■	■	■	■	■	■	■	■	■	■	TH6
M6	■	■	■	■	■	■	■	■	■	■	■	■	■	TH8
M8	To order only												■	N8
M10	To order only												■	N14

## Head Styles

- ▼ Countersunk only ★ Raised Countersunk only
- ▲ Pan Head only ■ Countersunk & Pan Head

# Shear Nuts



The Shear System is a high security permanent fastener.

Both the Shear Nut and the Shear Bolt have a hexagon part which shears off at a predetermined torque. Installed using standard hex socket or spanner. Once installed, the Shear Nut leaves a tamper resistant cone.

- Shear Nuts stocked in;  
Zinc Plated (CR-3) Steel  
Galvanised Steel  
A2 Stainless Steel  
A4 Stainless Steel



## Also available

**Saddle Bolts stocked in M8X40 galvanised finish for use with D section palisade fencing.**



Generally used in conjunction with M8 Galvanised shear nuts, or galvanised Kinmar® Permanent Nuts (see page 7).



## Stock Range:

Box Qty 100

Size Material	M4	M5	M6	M8	M10	M12	M16	M20	M24
Zinc Plated Steel			■	■	■	■	■	■	■
Galvanised				■	■	■	■	■	■
A2 Stainless Steel	■	■	■	■	■	■	■	■	
A4 Stainless Steel			■	■	■	■	■		

# Shear Bolts



The Shear System is a high security permanent fastener.

Both the Shear Bolt and the Shear Nut have a hexagon part which shears off at a predetermined torque. Installed using standard hex socket or spanner. Once installed, the Shear Bolt leaves a tamper resistant head.

- Stocked in A2 Stainless Steel
- Shear Bolts can also be manufactured to order in most common materials and finishes



## How it works:

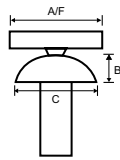


## Stock Range:

Button Head | A2 Stainless Steel

Box Qty 50

Gauge	Length										Shear Torque nm
	16 mm	25 mm	30 mm	40 mm	50 mm	60 mm	80 mm	A/F mm	B mm	C mm	
M6	■	■		■	■			10	3.5	9.5	7-14
M8	■	■	■	■		■	■	14	4.5	13.5	14-25
M10		■			■			17	5.5	16.5	30-42
M12		■				■		19	6.5	18.5	52-65



# Self Drillers

Self Drilling Screws manufactured with a 6-Lobe Pin drive.



Drilling tips provide fast and easy application eliminating the need to pre-drill. Installed and removed using 6-Lobe Pin tooling.

- Stocked in Delta Protekt® Coated Steel



6-Lobe Pin Tooling



Countersunk Head



Pan Head



## Stock Range:

Countersunk Head

Box Qty 100

Gauge	Length	1/2"	3/4"	1"	1 1/2"	2"	DRIVER SIZE
		13mm	19mm	25mm	38mm	50mm	
8	4.2mm	■	■	■	■		T20
10	4.8mm		■	■	■	■	T25
12	5.5mm			■	■	■	T27

Pan Head

Box Qty 100

Gauge	Length	1/2"	3/4"	1"	1 1/2"	2"	DRIVER SIZE
		13mm	19mm	25mm	38mm	50mm	
8	4.2mm	■	■	■	■		T20
10	4.8mm		■	■	■	■	T25
12	5.5mm			■	■	■	T27

## Technical Information:

Gauge (Point size)	8 (2)	10 (3)	12 (3)
Material thickness Mild steel up to (mm)	1 + 2	2 + 2	2 + 3

All sizes shown are without min and max tolerances and are guide sizes.

# Barrel Nut

Ensures maximum security when clamping two materials together.



These Barrel Nuts (also known as Interscrews) are internally threaded parts that are ideal for clamping two pieces of material together when used with machine screws. Ideal for: playground equipment, ironmongery and signage to name but a few.

- Manufactured with a 6-Lobe Pin security drive
- Stocked in A2 Stainless Steel
- Available with Button head and Countersunk head



Button Head



Countersunk



6-Lobe Pin Tooling

## Stock Range:

Button Head

Box Qty 100

Gauge	Length	10mm	12mm	16mm	20mm	25mm	30mm	DRIVER SIZE
M4		■						T20
M5		■						T25
M6			■			■		T30
M8				■			■	T40
M10					■			T45

Countersunk

Box Qty 100

Gauge	Length	12mm	16mm	20mm	25mm	DRIVER SIZE
M4		▼				T20
M5			▼			T25
M6			▼			T30
M8				▼		T40
M10					▼	T45

Security Anchors save time and money when fixing applications that require a firm hold. They are suitable for fixing to a wide range of base materials such as: brick, concrete, stone and masonry. Available in both permanent and removable options... for a hold that stays.



1. Countersunk  
A2 6-Lobe Pin  
Sleeve Anchor



2. Button Head  
A2 6-Lobe Pin  
Sleeve Anchor



4. Kinmar® Removable  
Steel Zinc Plated  
Sleeve Anchor



3. Kinmar® Permanent  
Steel Zinc Plated  
Sleeve Anchor

## Stock Range:

Box Qty 50

Size	Style	Anchor Option			
		1	2	3	4
M6 x 45mm			■	■	■
M6 x 50mm		■			
M8 x 50mm				■	■
M8 x 55mm		■	■		
M8 x 60mm				■	■
M8 x 70mm				■	■
M8 x 75mm			■		
M8 x 80mm		■			
M8 x 90mm				■	■
M10 x 60mm		■		■	■
M10 x 65mm			■		
M10 x 70mm				■	■
M10 x 80mm		■	■	■	■
M10 x 95mm				■	■

Please note these Anchors are not intended for heavy duty structural applications.

The special ridged design of this drive means that it can only operate in a clockwise motion. Installed using standard slotted screwdriver - no specialist tools required.

- Stocked in; Case Hardened Steel
- Zinc Plated (CR-3) Woodscrews
- A2 Stainless Steel Self Tapping Screws
- A2 Stainless Steel Metric Machine Screws



Countersunk  
Zinc Plated  
Woodscrew

Round Head  
A2 Self Tapper



Countersunk  
A2 Self  
Tapper



Round Head  
A2 Machine  
Screw



Removal tool available for Stainless Steel only

## Stock Range:

Countersunk | Zinc Plated Woodscrews

Box Qty 200

Length Gauge		3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
		19mm	25mm	32mm	38mm	50mm	63mm	75mm
6	3.5mm	■	■					
8	4.2mm	■	■	■	■	■		
10	4.8mm		■	■	■	■		
12	5.5mm				■	■	■	■

Countersunk / Round Head | A2 Stainless Steel  
Self Tapping Screws

Box Qty 100

Length Gauge		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
		13mm	19mm	25mm	32mm	38mm	50mm
6	3.5mm	▲	■	■			
8	4.2mm	■	■	■	■	■	■
10	4.8mm	▲	▲	■	■	■	■
14	6.3mm	▲	▲	▲		▲	▲

Round Head | A2 Stainless Steel Metric Machine Screws

Box Qty 100

Length Gauge		8 mm	10 mm	12 mm	16 mm	20 mm	25 mm	30 mm	35 mm	40 mm	45 mm	50 mm	60 mm
M4		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲		
M5			▲	▲	▲		▲	▲	▲	▲	▲		
M6				▲		▲	▲		▲			▲	
M8				▲		▲		▲		▲		▲	▲

Head Styles

▲ Round Head only ■ Countersunk & Round Head



# Pin Hex

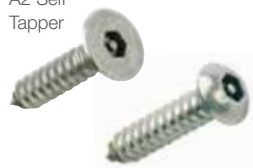
Hexagon socket screws manufactured with an internal pin.



This drive prevents removal with standard hexagon tools. Suitable for medium torque applications and is one of the most difficult to remove without the matching driver.

- Full range of AB Self Tapping and Metric Machine Screws stocked in A2 Stainless Steel
- Other styles of fasteners in the Pin Hex drive system: Socket Cap Screws, Grub Screws and Barrel Nuts

Countersunk A2 Self Tapper



Button Head A2 Self Tapper

Countersunk A2 Machine Screw



Button Head A2 Machine Screw



Pin Hex Tooling

Raised Countersunk A2 Machine Screw

## Stock Range:

Countersunk / Button Head | AB Type Self Tapping Screws Box Qty 100

Length	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	DRIVER SIZE
Gauge	9.5mm	13mm	16mm	19mm	25mm	32mm	38mm	50mm	63mm	75mm	
6	3.5mm	■	■	■	■		■				2mm
8	4.2mm	■	■	■	■	■	■	■			2.5mm
10	4.8mm	■	■	■	■	■	■	■	■		3mm
12	5.5mm			■	■	■	■	■			4mm
14	6.3mm			■	■	■	■	■			4mm

Countersunk / Raised Countersunk / Button Head | Metric Machine Screws

Box Qty 100

Length	6 mm	8 mm	10 mm	12 mm	16 mm	20 mm	25 mm	30 mm	35 mm	40 mm	45 mm	50 mm	60 mm	80 mm	100 mm	120 mm	DRIVER SIZE
Gauge																	
M3	■		■	■	■	■											2mm
M3.5				★	★	★	★		★	★	★						H30
M4	■	■	■	■	■	■	■	■		■							2.5mm
M5		■	■	■	■	■	■	■		■	■	■					3mm
M6		■	■	■	■	■	■	■		■	■	■					4mm
M8			■	■	■	■	■	■		■	■	■					5mm
M10				■	■	■	■	■		■	■	■		■	■		6mm
M12					■	■	■	■		■	■	■		■	■		8mm

### Head Styles

- ▼ Countersunk only
- ▲ Button Head only
- ★ Raised Countersunk only
- Countersunk & Button Head

# 6-Lobe Pin

6-Lobe recess manufactured with an internal pin.



Popular security drive for high torque applications. Quickly and easily installed and removed using matching tooling.

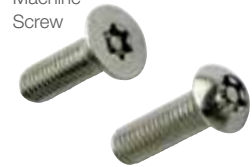
- Full range of AB Self Tapping and Metric Machine Screws stocked in A2 Stainless Steel
- Other styles of fasteners in the 6-Lobe Pin drive system
  - Barrel Nuts
  - Grub Screws
  - Concrete Tapping Screws
  - Tri-Lobular Metal Thread Screw/Taptite
  - Plastic Tapping Screws

Countersunk A2 Self Tapper



Button Head A2 Self Tapper

Countersunk A2 Machine Screw



Button Head A2 Machine Screw



6-Lobe Pin Tooling

Raised Countersunk A2 Machine Screw

## Stock Range:

Countersunk / Button Head | AB Type Self Tapping Screws Box Qty 100

Gauge	Length	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"	3"	4"	DRIVER SIZE
		9.5mm	13mm	16mm	19mm	25mm	32mm	38mm	44mm	50mm	63mm	75mm	100mm	
4	2.9mm		■	▼	■	▼								T10
6	3.5mm	◐	■	■	■	■	▼	■		■				T10/T15
8	4.2mm	■	■	■	■	■	■	■	▼	■	▼			T15/T20
10	4.8mm	◐	■	■	■	■	■	■		■	▼	▼	▼	T25
12	5.5mm				▼	■	■	■		■	■	■		T27
14	6.3mm				■	■	■	■		■				T30

Countersunk / Raised Countersunk / Button Head | Metric Machine Screws

Box Qty 100

Length	6 mm	8 mm	10 mm	12 mm	16 mm	20 mm	25 mm	30 mm	35 mm	40 mm	45 mm	50 mm	55 mm	60 mm	65 mm	70 mm	75 mm	80 mm	100 mm	DRIVER SIZE
Gauge																				
M3	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	T10
M3.5				★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	★	T10
M4	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	T20
M5		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	T25
M6		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	T30
M8			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	T40
M10				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	T45

### Head Styles

- ▼ Countersunk only
- ▲ Button Head only
- ★ Raised Countersunk only
- Countersunk & Button Head



This quick and easy to install security fastener is a favourite for applications in recess or channel due to its tall head design.

- Stocked in A2 Stainless Steel



Install with matching driver (key wrench)



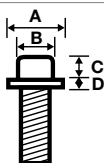
**Stock Range:**

Box Qty 100

Length	20mm	30mm	40mm	50mm	DRIVER SIZE
Gauge	■	■	■	■	TRI-8
M8	■	■	■	■	TRI-8

**Tri-Head Technical info (mm)**

DIMENSION	A	B	C	D
LENGTH				
20mm	14.0	9.5	6.3	1.7
30mm	14.0	9.5	6.3	1.7
40mm	14.0	9.5	6.3	1.7
50mm	14.0	9.5	6.3	1.9



## Technical information

### 2-Hole

		SELF TAPPING SCREWS						METRIC MACHINE SCREWS				
		No. 4	No. 6	No. 8	No. 10	No. 12	No. 14	M3	M3.5	M4	M5	M6
		2.9 mm	3.5 mm	4.2 mm	4.8 mm	5.5 mm	6.3 mm					
PAN HEAD		5.4	6.7	8.0	9.3	10.6	12.2	5.9	N/A	7.8	9.8	11.8
		1.7	2.0	2.4	1.7	3.1	3.6	1.7	N/A	2.4	3.0	3.6
CSK HEAD		5.4	6.6	7.9	9.2	10.5	12.2	5.4	N/A	7.3	9.0	10.8
		1.7	2.1	2.5	2.9	3.4	3.9	1.7	N/A	2.2	2.5	3.0
RAISED CSK HEAD		N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.3	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.9	N/A	N/A	N/A

### 5-Lobe / 6-Lobe Pin








		SELF TAPPING SCREWS						METRIC MACHINE SCREWS						
		No. 4	No. 6	No. 8	No. 10	No. 12	No. 14							
		2.9 mm	3.5 mm	4.2 mm	4.8 mm	5.5 mm	6.3 mm	M3	M3.5	M4	M5	M6	M8	M10
BUTTON HEAD		5.5	6.7	7.4	9.3	10.3	11.0	5.6	N/A	7.4	9.3	10.3	13.8	17.3
		1.7	2.5	2.1	2.6	3.2	3.4	1.7	N/A	2.2	2.8	3.3	4.4	5.5
CSK HEAD		4.9	6.6	7.9	9.3	10.6	12.2	5.7	N/A	7.8	9.8	11.8	15.8	19.7
		1.5	2.1	2.5	3.0	3.4	3.8	1.7	N/A	2.3	2.8	3.3	4.4	5.5
RAISED CSK HEAD		N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.4	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.8	N/A	N/A	N/A	N/A	N/A

**Please note Raised Countersunk Head are only stocked in the 6-Lobe Pin drive**

### 6-Lobe Pin Self Drillers

		No. 8	No. 10	No. 12
		4.2mm	4.8mm	5.5mm
PAN HEAD		7.9	9.3	10.6
		2.9	3.4	3.9
CSK HEAD		7.9	9.3	10.6
		2.5	3.0	3.4

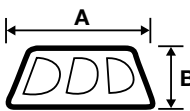
Pin Hex

		SELF TAPPING SCREWS					METRIC MACHINE SCREWS							
		No. 6	No. 8	No. 10	No. 12	No. 14	M3	M3.5	M4	M5	M6	M8	M10	M12
		3.5 mm	4.2 mm	4.8 mm	5.5 mm	6.3 mm								
BUTTON HEAD		6.7	7.4	9.3	10.3	11.0	5.5	N/A	7.4	9.3	10.3	13.7	17.1	21.0
		2.5	2.1	2.6	3.2	3.4	1.5	N/A	2.2	2.8	3.3	4.4	5.5	6.5
CSK HEAD		6.6	7.9	9.3	10.4	12.4	5.7	N/A	7.8	9.8	11.8	15.8	19.7	24.0
		2.1	2.5	3.0	3.4	3.8	1.7	N/A	2.3	2.8	3.3	4.4	5.5	6.5
RAISED CSK HEAD		N/A	N/A	N/A	N/A	N/A	N/A	6.4	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	1.8	N/A	N/A	N/A	N/A	N/A	N/A

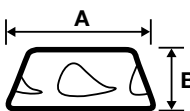
Clutch Head

		TWINTHREAD WOODSCREWS				SELF TAPPING SCREWS				METRIC MACHINE SCREWS			
		No. 6	No. 8	No. 10	No. 12	No. 6	No. 8	No. 10	No. 14	M4	M5	M6	M8
		3.5 mm	4.2 mm	4.8 mm	5.5 mm	3.5 mm	4.2 mm	4.8 mm	6.3 mm				
ROUND HEAD		N/A	N/A	N/A	N/A	6.3	7.6	8.8	11.7	7.4	9.3	10.2	13.0
		N/A	N/A	N/A	N/A	2.5	2.9	3.4	4.4	2.8	3.2	3.5	4.8
CSK HEAD		7.0	8.3	9.3	11.0	6.8	8.1	9.4	N/A	N/A	N/A	N/A	N/A
		3.5	4.6	5.0	5.4	3.2	3.8	4.4	N/A	N/A	N/A	N/A	N/A

Kinmar® Permanent

SIZE							
DIMENSIONS		M5	M6	M8	M10	M12	
A	12.1	12.1	16.1	20.1	24.2		
B	5.6	5.6	7.3	9.2	10.6		

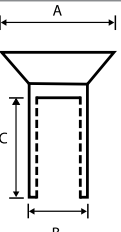
Kinmar® Removable

SIZE							
DIMENSIONS		M5	M6	M8	M10	M12	
A	12.1	12.1	16.1	20.1	24.2		
B	5.8	5.8	7.3	9.2	10.6		

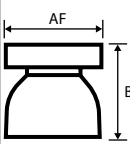
Button Head Barrel Nuts

SIZE	M4	M5	M6	M6	M8	M8	M10	
	10 mm	10 mm	12 mm	25 mm	16 mm	30 mm	20 mm	
DIMENSION	A	9.2	10	12	12	14.3	14.3	18
	B	2.8	3.3	4.4	4.4	5	5	5.8
	C	10	10	12	25	16	30	20
	D	5.3	6.4	8	8	10	10	12.5
	E	6	6	9	20	12	25	14

Countersunk Barrel Nuts

SIZE	M4	M5	M6	M8	M10	
	12 mm	16 mm	16 mm	20 mm	25 mm	
DIMENSION	A	7.8	9.8	11.8	15.8	19.7
	B	5.3	6.4	8.0	10.0	12.5
	C	6	6	7	10	14

Shear Nuts Galvanised

SIZE		M8	M10	M12	M16	M20	M24	
AF		17.0	19.0	22.0	24.0	30.0	36.0	
B		12.8	15.0	16.5	22.0	28.5	34.5	
Shear Torque	nm	14-28	34-48	45-62	80-95	100-140	360-420	

Shear Nuts Steel Zinc Plated

SIZE		M6	M8	M10	M12	M16	M20	M24
AF		13.0	17.0	19.0	22.0	24.0	30.0	36.0
B		10.0	12.8	15.0	16.5	22.0	28.5	34.5
Shear Torque	nm	7-14	14-28	34-48	45-62	74-90	100-140	360-420

Shear Nuts A2/A4 Stainless Steel

SIZE		M4	M5	M6	M8	M10	M12	M16
AF		7.0	10.0	10.0	13.0	17.0	19.0	24.0
B		9.1	9.1	9.5	12.0	15.0	16.0	22.0
Shear Torque	nm	5-9	7-12	7-14	14-28	40-56	55-70	74-90

We are able to offer a bespoke made to measure range of security fasteners.

With all types of specials, minimum order quantities and varying lead times apply depending on your size and material requirements. We have listed some available thread types, materials and finishes, but you may be looking for something totally different and unique. If so, send us your drawings and samples and we'll get you a quote.

### Materials

- A2 Stainless Steel
- A4 Stainless Steel
- Carbon Steel
- Aluminium
- Brass
- A1 303

### Head Shapes

- Button Head
- Countersunk
- Pan Head
- Raised Countersunk
- Round Head
- Flange Button Head

### Plating

- Polished
- Zinc & Yellow
- Zinc Plated
- Chrome Plated
- Galvanised/Geomet®
- Black Passivated
- Brass Plated
- Nickel Plated
- Copper Plated

### Patching/Painted Heads

- Painted Heads
- Powder Coated
- Thread Patching
- Thread Lubrication
- Thread Locking

### Thread Types

- Self Drilling Screws
- Self Tapping Screws:
  - AB Type
  - B Type
- Machine Screws:
  - Metric
  - Imperial
  - British Standard
- Woodscrews:
  - Single Thread
  - Twinthread
  - Hi-Lo thread
- Thread forming Screws:
  - Tri-Lobal
  - Paint Clearing
  - Plastic Forming
- Dog Point Screws

### Security Rating

- Available in levels 1-5







## Car Park Security

Kinmar® Removable is an ideal choice for car park applications especially on features including barriers and entry security. It can only be removed with the product specific driver tooling.



**Kinmar®  
Removable**



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## Playground Anti-theft

Available in two types bolts & screws Kinmar® Permanent is an ultra-high security one-way fixing. Once fitted it cannot easily be removed.

If, however you do need to remove the assembly for planned maintenance, then we would suggest the Kinmar® Removable as the most practical high security option.



**Kinmar®  
Permanent**



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# The Shard

The 6-Lobe Pin Barrel Nut was used extensively throughout The Shard build to provide maximum security when clamping materials together.

It's special head design offers peace of mind against theft and unauthorised tampering. These Hafren nuts also enjoy some of the best views in town!







## Street Furniture

Available in a wide range of styles and drives, including Barrel Nuts, Self Drillers & Sleeve Anchors the 6-lobe Pin drive is perfect for securing a wide range of higher torque applications.



**6-Lobe Pin**



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## Coastal Regeneration

With many coastal towns benefiting from a resurgence in popularity and an increase in revenue generated by tourism. There has been a sharp rise in redevelopment and regeneration.

Security Fasteners such as the Kinmar® Removable play a valuable role in helping protect property and ensuring the safety of the general public.



**Kinmar®  
Removable**

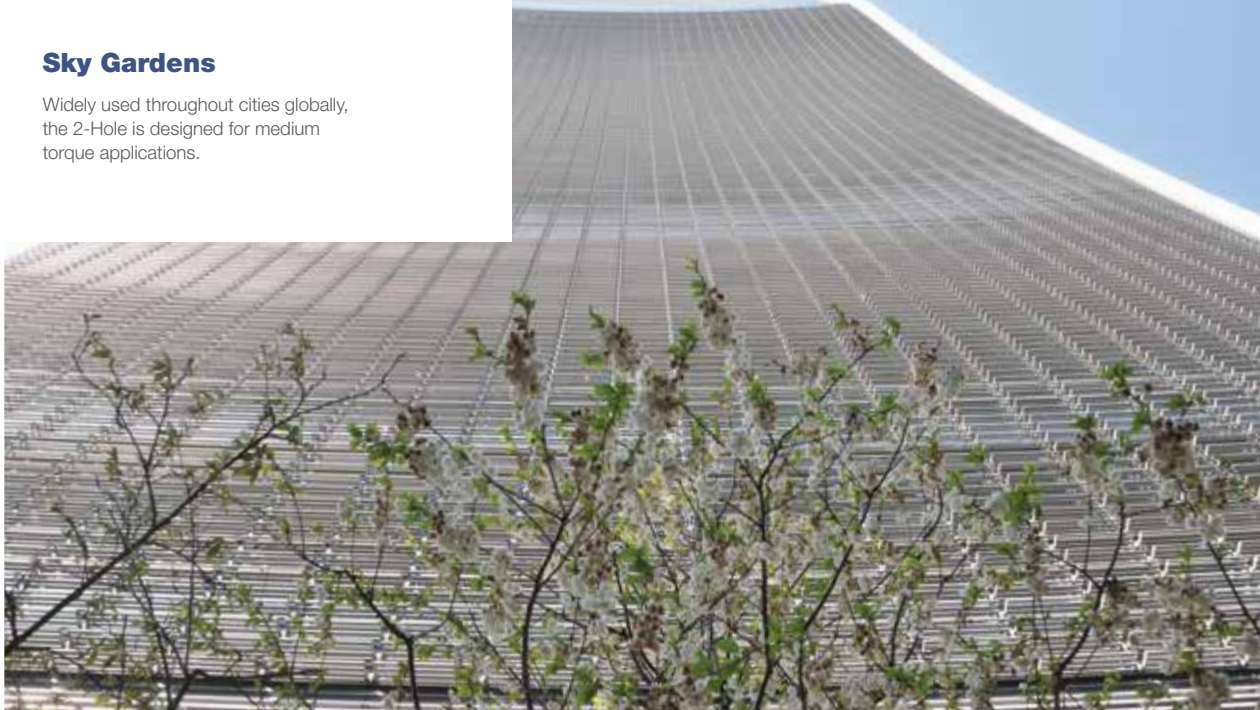


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## Sky Gardens

Widely used throughout cities globally, the 2-Hole is designed for medium torque applications.



## Public Transport

Transport systems are an essential element of modern societies - particularly cities.

Public transport facilities are prime targets for terrorists and criminals, which makes it essential to develop solutions to prevent crime on public transport systems.







Please contact your local office for further information, or email [sales@trfastenings.com](mailto:sales@trfastenings.com)

Visit our global website to see our full range of products available: [www.trfastenings.com](http://www.trfastenings.com)

