



# Connectors



# Connectors

## Product guide

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Fittings for rigid assembly systems

a highly cost-effective and rigid assembly system for factory, consumer and home assembly

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face boring applications that provide a tolerant efficient assembly

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two component rigid face and edge drilling fastening

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face boring expanding connectors for all cabinet applications.

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## System 7

Heavy duty cams and dowels

High quality fittings for offices and public furniture.

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### Easy to assemble

#### Have your products passed the CAF™ test?

CAF™ is an industry standard calculation for furniture and component designers. Adopting the CAF™ concept will improve customer satisfaction while increasing productivity and profit.

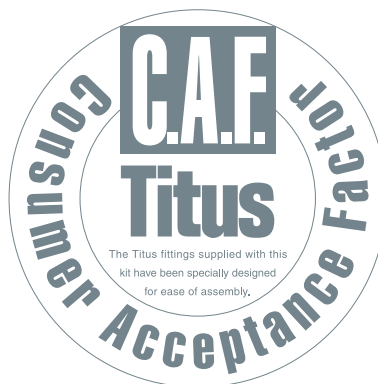
Self assembly furniture offers consumers good value and instant availability. It is a widely accepted and well established market. However, in these days when the aim is to 'delight the customer' with product convenience, the difficulties encountered in the actual process of self-assembly can sometimes lead to frustration and disappointment.

A dissatisfied customer is unlikely to make another purchase from the same retailer. Indeed, he may never purchase self-assembly furniture again.

So, increasing competition and customer expectations are forcing all of us to re-examine the marketing of our products in terms of quality and, particularly, in terms of customer satisfaction.

Titus, as the leading manufacturer of fittings and fasteners, was sufficiently concerned to carry out research in order to evaluate the seriousness and extent of this problem. A major study revealed the main areas of concern among RTA customers were 'confusing directions and difficult assembly methods' and it confirmed that some assembly systems have a different effect on repurchase.

To help overcome this challenge, Titus has devised CAF™ –Consumer Acceptance Factor.



### Easy to assemble

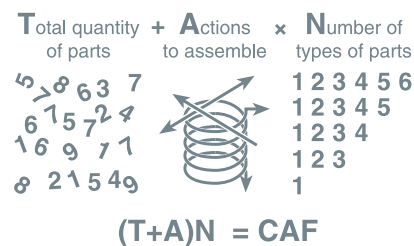
#### How does it work?

CAF™ provides a comparative measure for customer satisfaction—using the Titus CAF™ formula and each step included in home-assembly furniture is given a precise score. By using this formula, manufacturers are able to objectively evaluate their product(s) internally or against those of their competitors.

The ultimate aim, of course, being to provide the consumer with simpler instructions, fewer parts and easier actions required to complete the assembly of the furniture.

There are obvious advantages to manufacturers – quite apart from marketing. Buying, counting, bagging and stocking of fittings can be dramatically reduced.

Towards this aim, Titus, by innovative design, has significantly reduced the number of fittings traditionally required in furniture production and also made them much less complicated.



Minimise the numbers in the Titus CAF™ formula to achieve:

- High customer satisfaction
  - Improved productivity
  - Higher profits

# System 1

## Fittings for rigid assembly systems

### System features

#### Double locking carcass screw

- Zinc diecast for precision
- Titus Double locking carcass screw makes an almost invisible connection
- Collar under the head to pull panels together
- 2nd 'lower' thread pulls against a 'faster' thread to provide maximum connection force and prevents overdriving of fastener
- Almost invisible in position
- Head can be 'fastcapped' or filled

#### Hi-Lo™ carcass construction screw

The Hi-Lo™ carcass construction screw (CCS) offers a strong, tolerant and cost effective connection with minimal panel preparation.

The combination effect of the elements of a Hi-Lo™ screw means

- A greater differential between drive torque and strip torque in fibrous and particle materials to ensure a reliable and repeatable fixing
- Hi-Lo™ threads provide minimum bursting forces
- 'Hi' thread gives low bursting component force from the sharp 30 degree angle thread
- 'Lo' thread at 60 degree angle uses the vertical force component to press fibrous and particle components of panels onto the 'Hi' thread and are contained by their greater height
- The very small shank on a Hi-Lo™ screw means less material displacement than conventional threads and enables minimum or partial drilling of pilot holes for speedier panel processing

#### Barrel nut (plastic)

- Used with Titus Hi-Lo™ screws
- Titus barrel nuts provide maximum strip torque for reasonable drive torque
- Capable of multiple reconnection repeatability

#### Cover caps

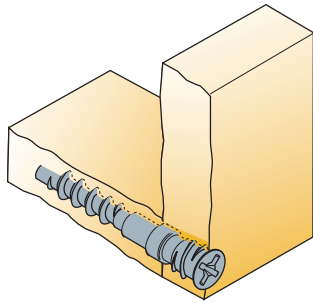
- Available in multiple colours
- All recess and head types offered
- High quality engineering polymers used in their construction
- Uniformity of holding with good tolerance
- Wide range of application and use conditions

# System 1

## Fittings for rigid assembly systems

### Double locking carcass screw

- High performance from widely spaced primary thread
- Finer secondary thread provides additional holding power and positive stop (no override)
- Increased support for vertical panel is gained from the funnel head with collar at its base
- One-piece fitting



Technical and mounting details

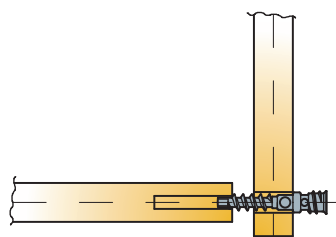
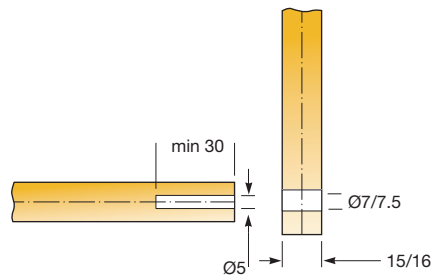
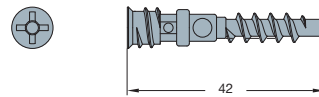
Screw  
6x42

Item number

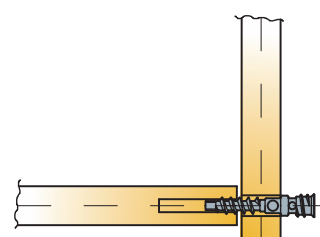
Zinc

00180 →

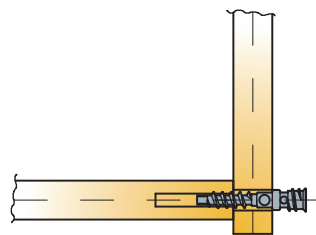
885



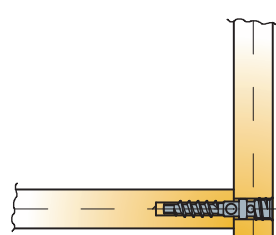
1. Insert screw to shoulder in face board



2. Screw into Ø5mm hole



3. Board joint pulled up by collar on screw



4. Board locked in place by screw

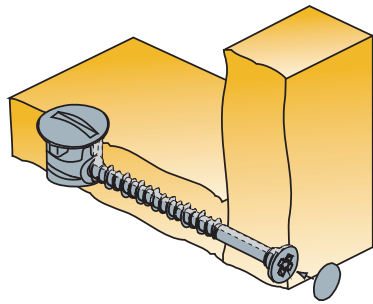
1000 Pcs

Made of zinc

# System 1 Fittings for rigid assembly systems

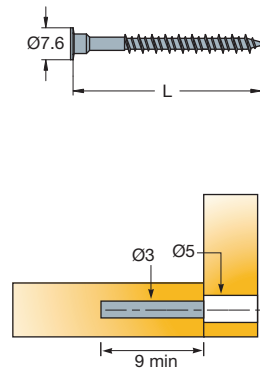
## Hi-Lo™ screw and Barrel nut

- Hi-Lo™ screws have a twin thread for faster insertion
- 'Hi' threads and 'Lo' threads combine to give excellent pull out in chipboard
- Funnel head design means no countersinking
- Steel is case hardened for extra strength



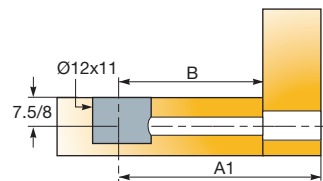
Technical and mounting details

### Hi-Lo™ screw



Made of steel

### Barrel nut



10000 Pcs

Made of plastic

### Screw cap



50000 Pcs


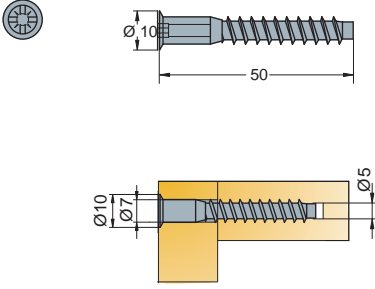


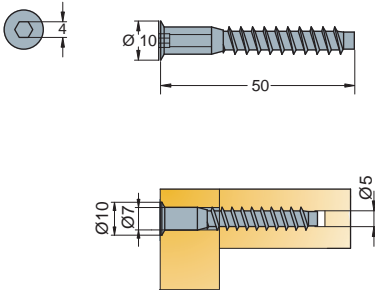


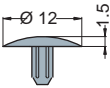


Made of plastic

Screw diameter	A1	L	Item number	Black	Phosphate	White
4	20	25	*00062 →		852	
4	14	19	00066 →		852	
4	23	28	*00068 →		852	
4	28	33	00071 →		852	
4	40	45	00077 →		852	
5	42	47	00084 →		852	
4	40	45	*00171 →		852	
4	50	55	00172 →		852	
4	33	38	*06074 →		852	
4	45	50	*06077 →		852	
5	45	50	*06080 →		852	
			<i>*American market only</i>			
			01056 →	835	877	
			<i>Other colours on request</i>			
			pozi, philips	01020 →		877
			hexagon	01042 →	835	877
			<i>Other colours on request</i>			

# System 1

## Connecting screws

- Screws with crosshead PZ2 screwdriver or allen key slot
- Decorative cover caps are available in different colours

Technical and mounting details		Item number	Zinc plated blue	Ochre	White
<p><b>Crosshead screwdriver slot</b></p>  		827.6202. →	040		
 1000 Pcs <span style="margin-left: 100px;">Made of steel</span>					
<p><b>Allen-key slot</b></p>  		827.6201. →	040		
 1000 Pcs <span style="margin-left: 100px;">Made of steel</span>					
<p><b>Cover caps for connecting screws</b></p>   <p>Universal</p>  <p>For allen key slot head</p>	<p>Universal</p> <p>For allen key slot head</p>	827.4013. →	330	350	
		827.4130. →	330	350	
 1000 Pcs <span style="margin-left: 100px;"></span>					

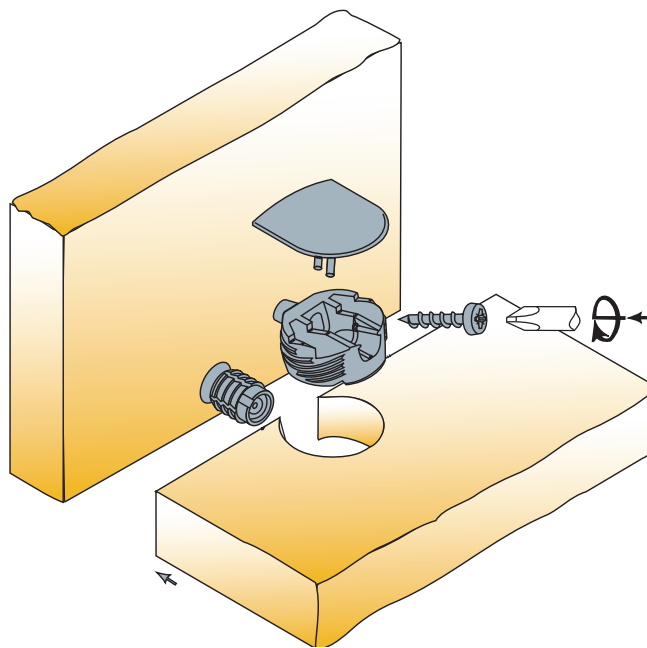
# System 2

## Fittings for face-boring applications

### System features

A family of face boring only concealed fittings and rail fasteners with wide tolerances and the enormous clamping power of an angled screw.

- Factory or site component installation
- Wide tolerances
- Face boring only
- Cover caps for concealment
- For kitchen, furniture storage, office and store fixture applications
- Non twist rail fastener versions
- multi use 'pocket screw' replacement
- Used in cabinet construction

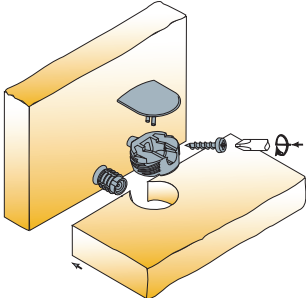

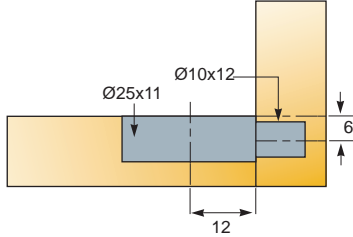


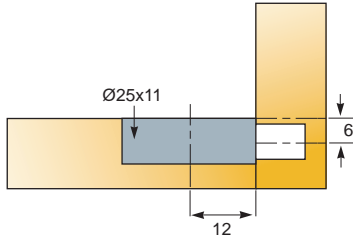






# System 2

## Fittings for face-boring applications

### Concealed fittings

- Combination of hi-thread screw and nylon insert allows a high clamping force improving cabinet rigidity
- Unlimited stacking height due to flush housing
- Provides a strong, secure fitting which eliminates the need for edge boring
- 1mm either side from hole centre is absorbed improving consumer confidence

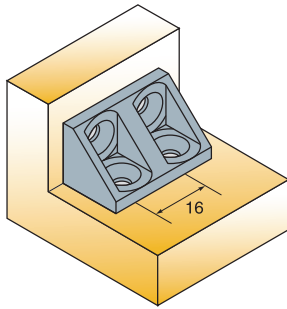
Technical and mounting details		Item number	White	Black	Zinc plated	Brown beige
						
<b>Housing assembly</b> 		02046 →	877	835		
 2500 Pcs	Made of plastic, steel					
<b>Housing (no nose)</b> 		*02985 →	877			
 2500 Pcs	Made of plastic					
<b>Screw panhead</b> No 8 x 17.6 		01709 →		883		
 15000 Pcs	Made of steel					
<b>Cover cap</b> 		01732 →	877		806	
	Made of plastic					Other colours on request

Inserts → see page 1.57

# System 2

## Fittings for face-boring applications

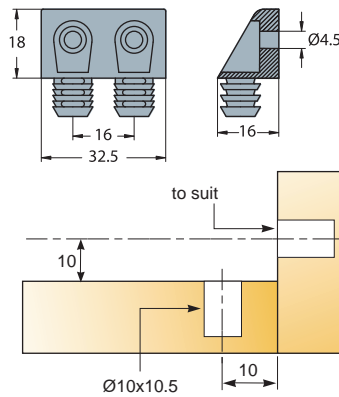
- Range of fixing blocks for multiple applications
- Face drilling only required
- Durable plastic material is flexible providing greater holding power
- Choose screw fastening or hammer insertion



Technical and mounting details

Item number	Dark brown	Light brown	Ivory	White
	02075 →	831	867	877
02077 →			875	877
06073 →		867	877	

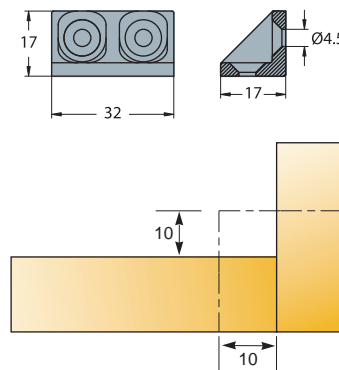
Rail fastener



2000 Pcs

Made of plastic

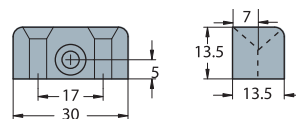
Rail fastener



2000 Pcs

Made of plastic

Modesty block



3000 Pcs

Made of plastic



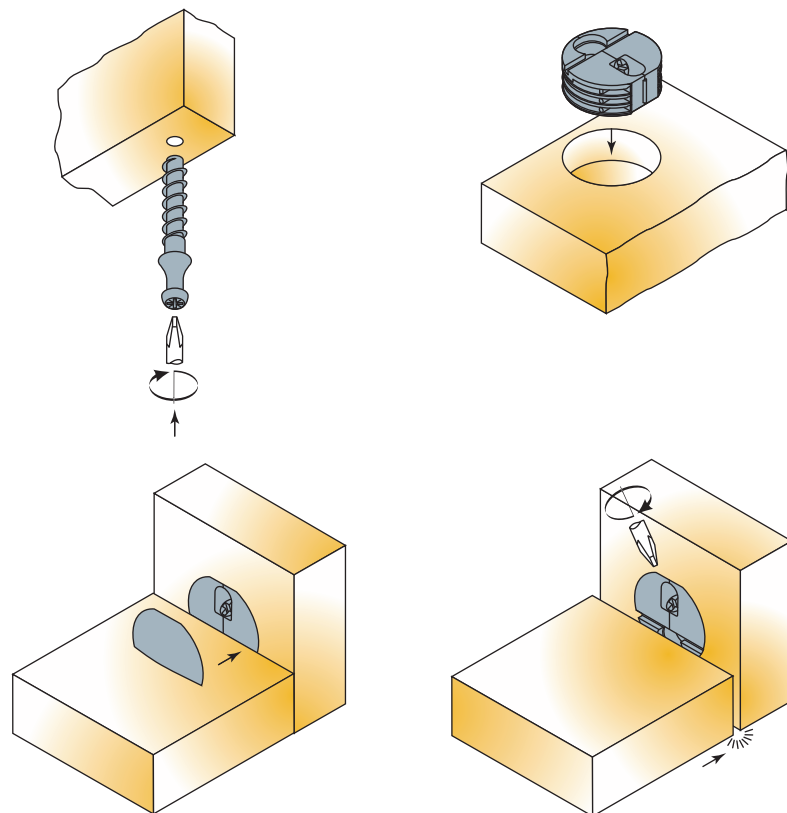
# System 3

## Fittings for face and edge boring

### System features

Titus System 3 is a two component rigid face and edge drilled fastening with half turn to fasten. System 3 offers almost full concealment and wide tolerances in use.

- Automatic or in-factory placement
- Pre-location pin ensures ease of assembly
- Less than one turn of a screwdriver to fasten
- Shelf edge installation of pin means maximum shelf cut size tolerance
- Can be used on 12mm shelf panels
- No loose parts for maximum convenience in RTA
- Drawer front fixing, cabinet construction

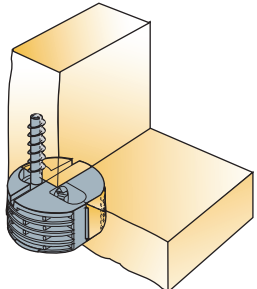





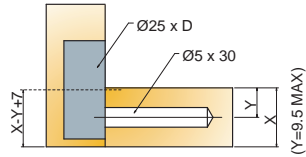

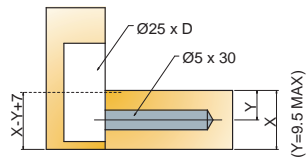

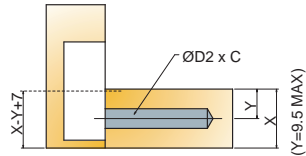



# System 3

## Fittings for face and edge boring

### Concealed housing

- One turn locking system reduces assembly time, both in the factory and home
- Pre-assembly feature for consumer convenience
- Choice of dowels to suit drilling
- Hi-Lo screw feature for faster insertion

 <p>Technical and mounting details</p>		C	D	D2		 Dark brown	 Zinc plated	 Yellow passivate	 White
		Drilling length for dowel	Drilling depth	Drilling diameter for dowel thread	Item number				
<b>Housing assembly</b>  2500 Pcs Made of plastic or zinc, plastic	 <p>X, Y - depends on board thickness</p>	12.5			<b>03118</b> →	831			
		11			<b>03121</b> →	831	Other colours on request		
<b>Screw dowel Ø5</b>  1000 Pcs Made of steel	 <p>X, Y - depends on board thickness</p>				<b>03168</b> →	883			
<b>Screw dowel Ø3</b>  Made of steel	 <p>X, Y - depends on board thickness</p>	30		3.75	<b>03181</b> →	881			
		9		3	<b>03180</b> →	881			
		25		3	<b>*03090</b> →	883			
		25		3	<b>*03190</b> →	883			
		*American market only							
<b>Cover cap</b>  15000 Pcs Made of plastic				<b>03150</b> →	831			877	

# System 4

## Fittings for face-boring only

### System features

Cost effective one piece fittings with face boring benefits

- Flush and block components
- Face-boring only
- Good tolerances
- One piece connectors
- Angledriv versions fastening with maximum driving power and flexibility
- Quickloc™ versions need only one turn to tighten for fast assembly
- Foolproof consumer home insertion

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#### Quickloc™

The integrated housing and dowel make Quickloc™ the most user-friendly and tolerant product available.

#### Product features:

- High degree of drilling tolerance
- Push-in design
- Tool-free insertion
- Integrated expanding housing and dowel provide consistently stronger joints
- 'Klix' locking system

# System 4 Quickloc™

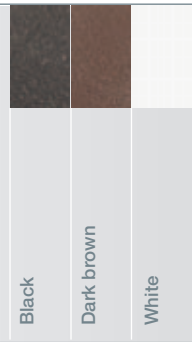
## One piece expanding connector

- An innovative, one-piece connector, capable of hand insertion
- Is highly tolerant and tightens in less than one turn
- Is a face-bored product
- Offers a high degree of drilling tolerance and is the only connector of its type to provide pull-up of cabinet panels when tightened



Technical and mounting details

Item number



Black

Dark brown

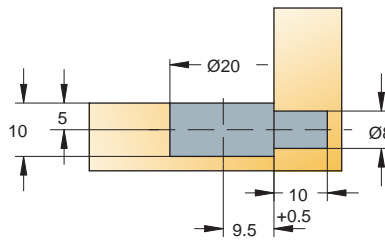
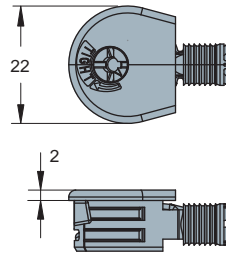
White

Quickloc  
flanged

06803 →

831

835



2500 Pcs

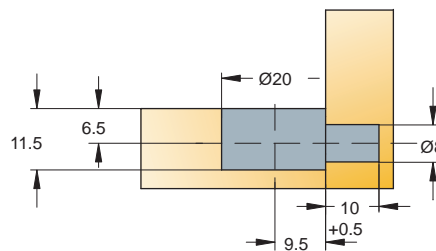
Made of zinc, plastic

Quickloc  
flush

06806 →

831

877



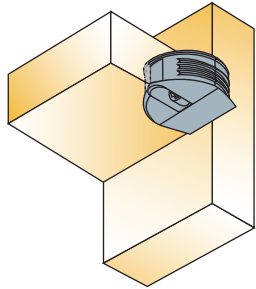
2500 Pcs

Made of zinc, plastic

# System 4 Fittings for face-boring only

## Flushbloc™ / Flushfix™

- The Angeldriv screw provides high level of tolerance
- Face drilling only required
- Corner joint and shelf fixing options



Technical and mounting details



Item number

Brown beige

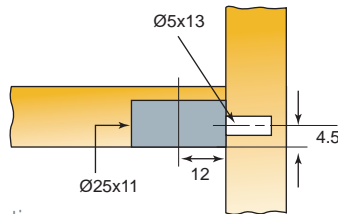
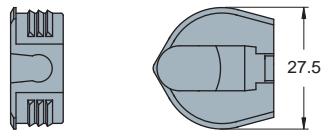
Silver

White

Zinc

Black

### Flushfix™



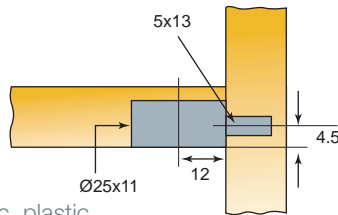
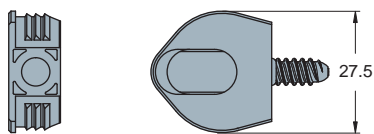
2500 Pcs

Made of plastic

02161 → 806 861 877

Other colours on request

### Flusbloc™ assembly



2500 Pcs

Made of zinc, plastic

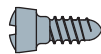
02193 → 877 835

\*02190 → 835

\*02164 → 835

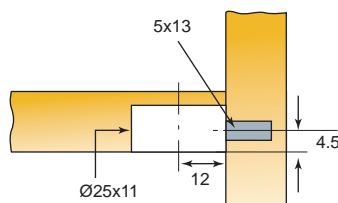
\* American market only  
Other colours on request

### Angeldriv screw for use with Flushfix™



unthumped

thumped



Made of zinc

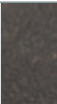


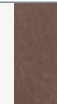
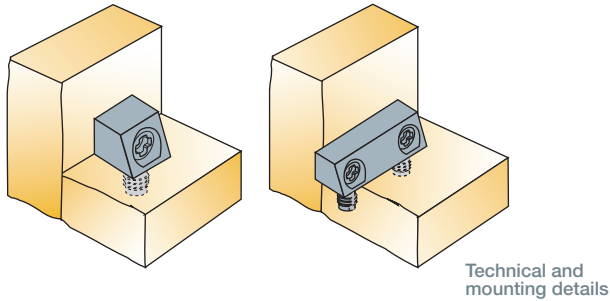

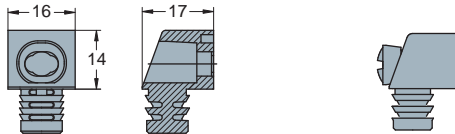
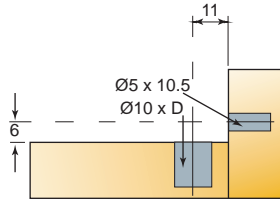

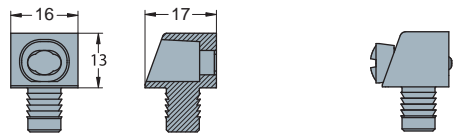
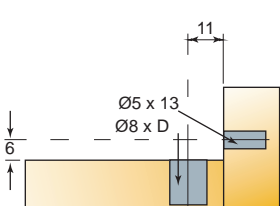

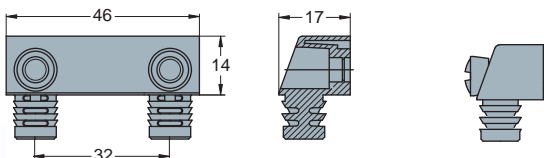
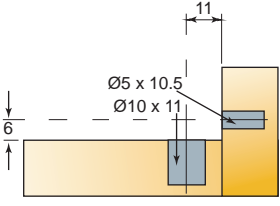
00021 → 885

00022 → 885

# System 4 Fittings for face-boring only

## Minibloc™ / Twinbloc™

- One-piece connector range
- Face drilling only required
- Easy to use, foolproof home insertion
- Angeldriv screw tolerates good levels of inaccurate drilling increasing consumer confidence

		D				
		Drilling depth	Black	Silver	White	Dark brown
		Item number				
 <p>Technical and mounting details</p>						
<b>Minibloc</b>     <p>Made of zinc, plastic</p>	11	<b>02107</b> →	835	861	877	831
	11	<b>*02120</b> →	835	861	877	831
	11	<b>02101</b> →				834
	11	<b>*02121</b> →				834
	<p><i>* assembly with screw</i> <i>Other colours on request</i></p>					
<b>Minibloc</b>     <p>Made of zinc, plastic</p>	11	<b>02141</b> →	835	861	877	
	11	<b>*02144</b> →	835		877	
	<p><i>* assembly with screw</i> <i>Other colours on request</i></p>					
<b>Twinbloc</b>     <p>Made of zinc, plastic</p>	11	<b>02130</b> →	835	867	877	
	11	<b>*02139</b> →	835	867	877	
	<p><i>* assembly with screw</i> <i>Other colours on request</i></p>					

 1000 Pcs

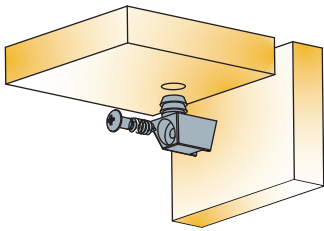
Made of zinc, plastic

Angeldriv screw → see page 1.19

# System 4

## Fittings for face-boring only

### Knock-down fittings



Technical and mounting details

Item number

Zinc plated blue

White

Brown

Black

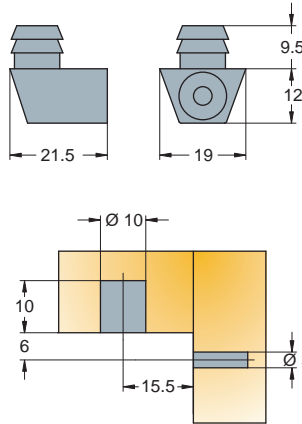
Fitting

278.4129. →

350

370

380



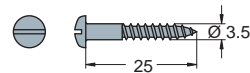
5000 Pcs

Made of plastic

Screw

825.7561. →

040

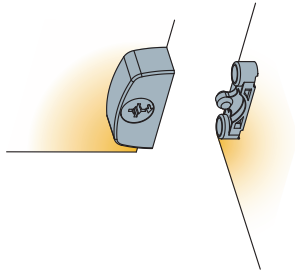


5000 Pcs

Made of steel

# System 4 Fittings for face-boring only Cambloc

- Screw-on and knock-in versions are available
- Plastic housings are available in different colours
- Quick and intuitive assembly when fittings are pre-mounted on furniture

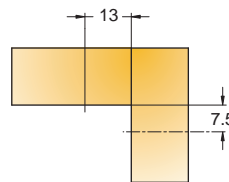
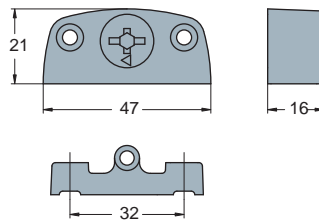


Technical and mounting details

Item number	Zinc plated + white housing	Zinc plated + brown housing	Zinc plated + black housing
-------------	-----------------------------	-----------------------------	-----------------------------

## Screw-on

279.9187. → 960 970 980

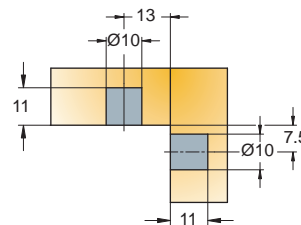
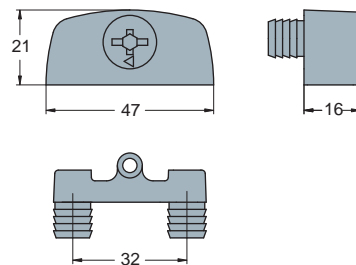


1000 Pcs

Made of plastic, zinc cam

## Knock-in

279.9465. → 960 970 980



500 Pcs

Made of plastic, zinc cam

# System 5

## Cams and dowels

### System features

Titus System 5 is a comprehensive range of cam and dowel connecting fittings with Klix and Quickfit features for all cabinet applications: panel-to-panel, panel-to-hollow profile, back-to-back.

Fittings are made from different materials (zinc, steel, high grade plastic).

System 5 includes: standard screw-in Twinstart dowels, Quickfit and Quickfit TL dowels, Combi dowels, Quickfit P2F dowels, M6 dowels, end dowels, double-ended dowels, angled dowels, Ø12 and Ø15 cams, cover caps and other items.

### Dowels

- **Quickfit TL dowels**  
dowels with a built-in self-adjustment feature
- **Quickfit dowels**  
easy push-in to the hole by hand
- **steel dowels - forged**  
optimal material consumption, good performance, klix features
- **turned dowels**  
'traditional' design, smooth surface, best strength performance
- **zinc dowels (twinstart, single start)**  
precise manufacturing, optimal shape and design, all features available
- **Hybrid dowels (Combi dowels)**  
technologically advanced dowels which combine advantages of diecasting and forging technologies

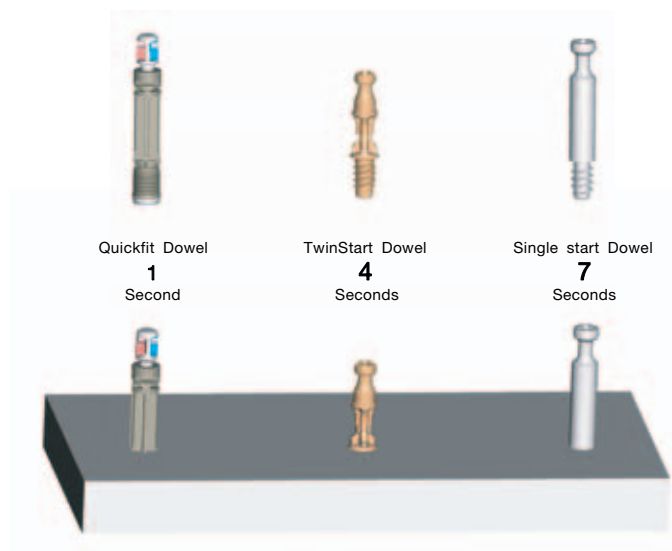
### Titus Klix™

'Klix' (anti-rotation feature) cams with Linear pull

- 'Klix' teeth give vibration resistant holding power
- Cam and pin indents 'lock' on to each other in any rotational position
- 12mm and 15mm versions
- Linear power curve for maximum tightening power
- Constant turning force to tighten
- 'Same cam' compatibility with all Titus dowel pins

Both the cam and Quickfit™ dowel have the patented Titus Klix™ feature - the addition of teeth to the underside of the dowel head, which interlock with pockets in the cam. This design increases the mating surface area and forms a mechanical rather than a friction lock, with added resistance to unwinding or loosening of the cam after installation.

### Dowel insertion time comparison



## Quickfit TL connectors

Quickfit-TL™ dowel offers furniture manufacturers a fast assembly system which provides high drilling tolerances. It has a built-in self-adjustment feature, which enables common drilling inaccuracies to be overcome.

For the self-assembly furniture consumer, Titus Quickfit-TL™ is the most consumer friendly fitting on the market. Apart from the benefit of fully tightened joints and always locking easily into the same position, Quickfit-TL™ provides an exceptionally smooth action when tightened, so it requires very little effort.

### Drilling tolerances

Marginal inconsistencies of drilling and the problems associated with the natural movement of wood panels, no longer present problems.

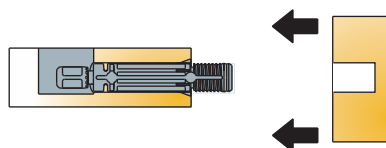
Quickfit-TL™ provides a tolerance of  $\pm 3/-1$ mm on drilling operation while still ensuring that the final result is a perfectly precise and aligned joint. No other assembly fittings system can offer such tolerances and still maintain a perfect joint.

### Assembly

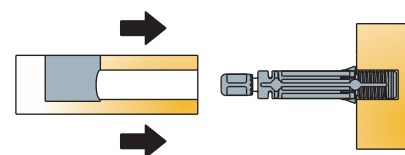
#### 1. Press the cam into face board



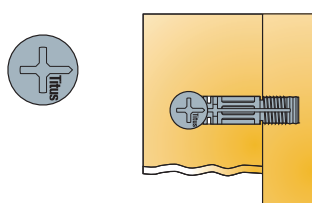
#### 2a. Either push dowel into edge hole or...



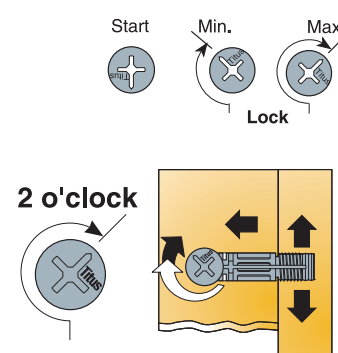
#### 2b. Insert dowel into side panel



#### 3. Assemble the panels



#### 4. Tighten cam to lock dowel



# System 5

## Cams and dowels

### Quickfit connectors

It is the fastest assembly system on the market. The Quickfit™ dowel may be inserted by hand, using only finger pressure. This eliminates the labour intensive process of screw-in assembly and the potential panel damage.

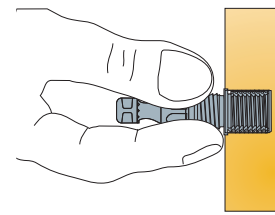
The Quickfit™ range of dowels has been extended to provide a complete family of fittings, available in diameters of 5mm, 8mm and 10mm, lengths of 24mm and 34mm. These dowels are compatible with the range of Titus Ø15mm cams.

#### Assembly

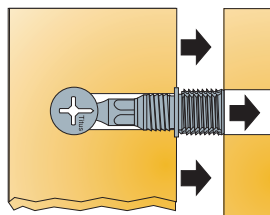
##### 1. Press cam into face board



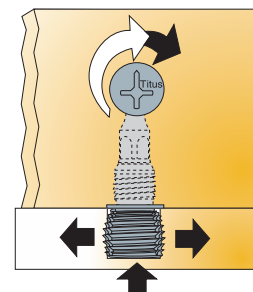
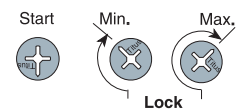
##### 2. Insert dowel into side panel



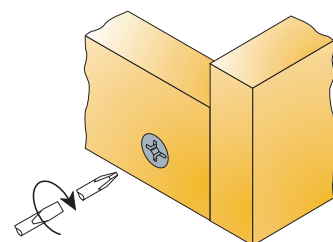
##### 3. Assemble the panels



##### 4. Tighten cam to lock dowel



##### 5. Assembled panels

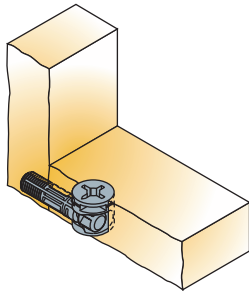


# System 5

## Cams and dowels

### Quickfit-TL dowels

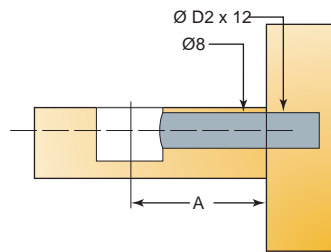
- Available in Ø5mm and Ø8mm for panel-to-panel applications
- Suitable for use with all Ø15mm Cam2000 products
- 'Klix' locking feature provides a strong, vibration proof joint
- Highly tolerant in edge-inserted, TL3 also in face-inserted applications



Technical and mounting details

A	D2	Item number	S-tan	Dark grey
Drilling distance with tolerance range	Drilling diameter for dowel thread			
24 (23-25)	5	<b>05453</b> →		880
34 (33-35)	5	<b>05503</b> →		880
24 (23-27)	8	<b>05441</b> →		880
34 (33-37)	8	<b>05474</b> →		880
24 (23-25)	8	<b>05395</b> →		871

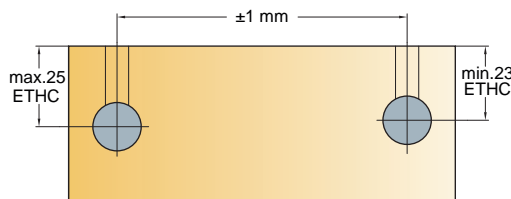
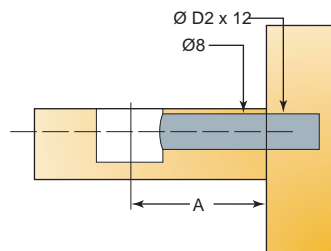
#### Quickfit-TL2



Tolerance range

Made of zinc, plastic

#### Quickfit-TL3



Tolerance range

2000 Pcs

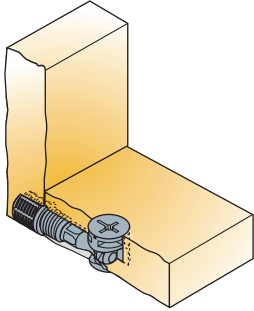
Made of zinc, plastic

# System 5

## Cams and dowels

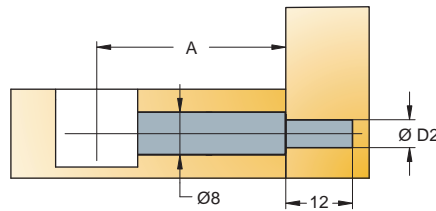
### Quickfit dowels

- Available in Ø5mm, Ø8mm and Ø10mm for panel-to-panel applications
- Suitable for use with all Ø15mm Cam2000 products
- 'Klix' locking feature provides a strong, vibration proof joint
- Depth stop collar for accurate insertion



Technical and mounting details

#### Quickfit dowels



Drilling distance	Drilling diameter for dowel thread	Item number		
			Dark grey	Light grey
24	5	05714 →	880	
24	5	*05453 →	880	
34	5	05685 →	880	
34	5	*05503 →	880	
20	8	05556 →	880	
24	8	05563 →	880	
28	8	05552 →	880	
34	8	05554 →	880	
24	10	05810 →		882
24	10	*05570 →		882
34	10	05572 →		882

\* American market only

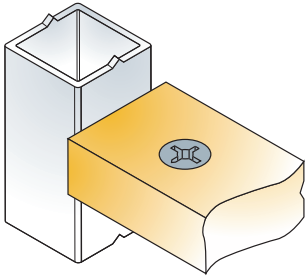
Made of zinc, plastic

# System 5

## Cams and dowels

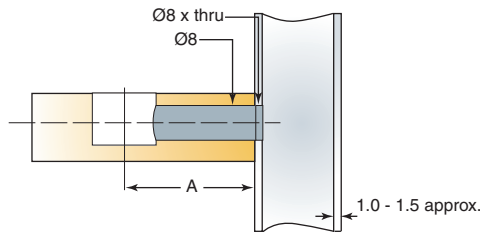
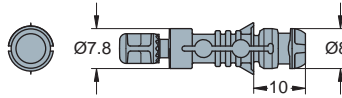
### Quickfit-P2F dowels

- The only product to enable normal panel drilling and connection of panel and hollow profile
- Available in Ø8mm for panel-to-hollow profile applications
- Suitable for use with all Ø15mm Cam2000 products
- 'Klix' locking feature provides a strong, vibration proof joint



Technical and mounting details

Quickfit - P2F



A	Drilling distance	Item number	Black
		05414 →	835

2000 Pcs

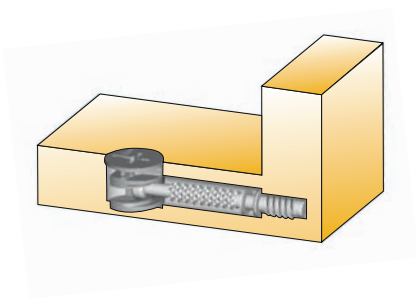
Made of zinc, plastic

# System 5

## Cams and dowels

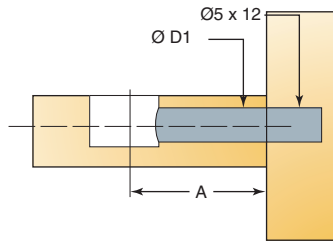
### Twinstart dowels

- Available in a variety of thread and drive recess combinations to suit most panel-to-panel applications
- Suitable for use with all Ø12mm and Ø15mm Cam2000 products
- 'Klix' locking feature provides a strong, vibration proof joint
- Twinstart thread results in reduced insertion times



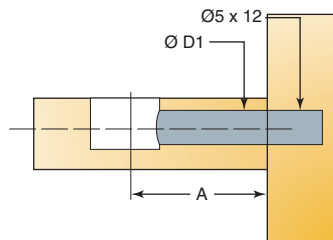
Technical and mounting details

Twinstart dowel Ø7



Made of steel

Twinstart dowel



Made of zinc

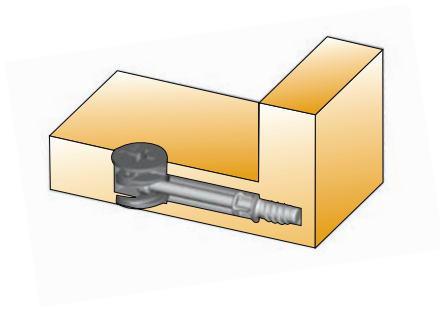
Drilling distance	Drilling diameter for dowel body	Item number		
			Zinc plated	Zinc
20	7-8	<b>05897</b> →	883	
28	7-8	<b>05561</b> →	883	
24	7-8	<b>05961</b> →	883	
34	7-8	<b>05962</b> →	883	
20	6-7	<b>05545</b> →	885	
24	6-7	<b>05544</b> →	885	
30	6-7	<b>05543</b> →	885	

# System 5

## Cams and dowels

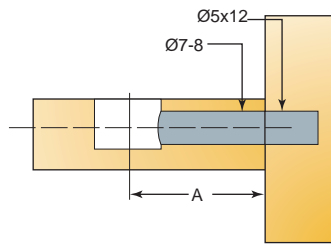
### Combi dowel

- High quality zinc-steel dowel with greater resistance to torsion and pull-out
- Suitable for use with all Ø12mm and Ø15mm Cam2000 products
- 'Klix' locking feature provides a strong, vibration proof joint
- Depth stop collar for accurate insertion



Technical and mounting details

Combi dowel



PH2 cross slot

PH2 cross slot

PH2 cross slot

A	Drilling distance	Item number	Zinc
	34	09435 →	885
	24	09443 →	885
	20	09444 →	885
	34	*09424 →	885
	24	*09423 →	885
	20	*09422 →	885
<i>* American market only</i>			

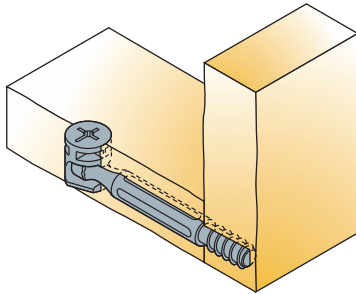
Made of steel and zinc

# System 5

## Cams and dowels

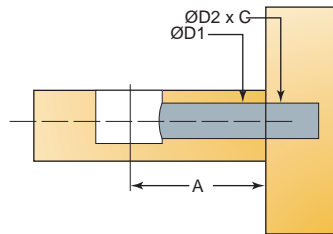
### Conventional dowels

- Available in a variety of thread and drive recess combinations to suit most panel-to-panel applications
- Suitable for use with all Ø12mm and Ø15mm Cam2000 products
- 'Klix' locking feature provides a strong, vibration proof joint
- Depth stop collar for accurate insertion



Technical and mounting details

Dowel Ø6



A	C	D1	D2	Item number	Zinc
Drilling distance	Drilling length for dowel thread	Drilling diameter for dowel body	Drilling diameter for dowel thread		
24	9	6/7	5	<b>05546</b> →	885
24	12	7/8	5	<b>05758</b> →	885
28	12	7/8	5	<b>05716</b> →	885
34	9	7/8	5	<b>05762</b> →	885

1000 Pcs

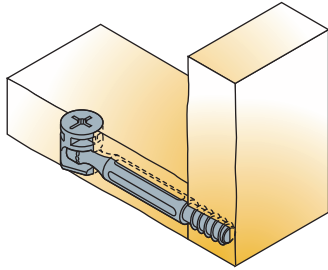
Made of zinc

# System 5

## Cams and dowels

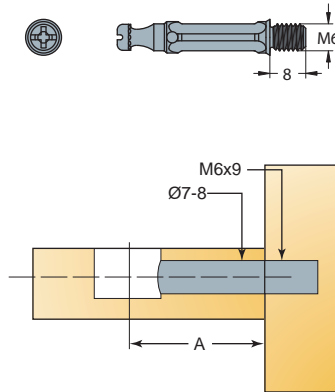
### M6 dowels

- Available in a variety of thread and drive recess combinations to suit most panel-to-panel applications
- Suitable for use with all Ø12mm and Ø15mm Cam2000 products
- 'Klix' locking feature provides a strong, vibration proof joint
- Depth stop collar for accurate insertion



Technical and mounting details

M6 dowel



A	Item number	Zinc
Drilling distance		
24	05548 →	885
34	05584 →	885

1000 Pcs

Made of zinc

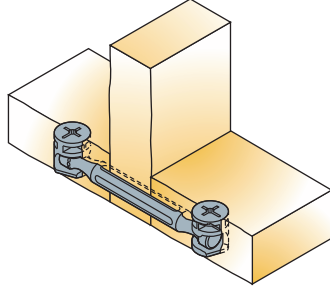

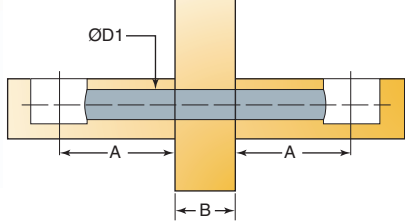

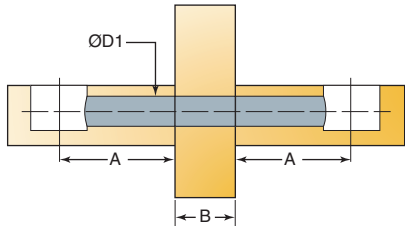
Inserts → see page 1.57

# System 5

## Cams and dowels

### Double-ended dowel

- Available in Ø7mm
- Suitable for use with all Ø12mm and Ø15mm Cam2000 products
- No circlip for increased tolerance
- Available in a variety of lengths to suit most panel-to-panel applications

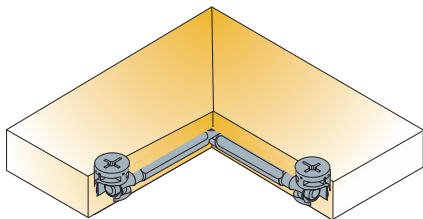
 Technical and mounting details		A	B	D1	Item number	Material	
		Drilling distance	Panel thickness	Drilling diameter for dowel body		Zinc plated	Zinc
<b>Dowel without circlip</b> 		24	0*	7-8	<b>05929</b> →		885
		34	0*	7-8	<b>05757</b> →		885
		24	15	7-8	<b>05592</b> →		883
		34	16	7-8	<b>05858</b> →		883
		34	18	7-8	<b>05859</b> →		883
		34	19	7-8	<b>05753</b> →		883
		24	16	7-8	<b>05857</b> →		883
		24	19	7-8	<b>05778</b> →		883
		*B=0 → no panel required					
Made of steel or zinc							
<b>Dowel with circlip</b> 		34	16	7-8	<b>05752</b> →		883
		34	18	7-8	<b>05772</b> →		883
		34	19	7-8	<b>05751</b> →		883
		24	16	7-8	<b>05775</b> →		883
		24	19	7-8	<b>05774</b> →		883
		Made of steel					

# System 5

## Cams and dowels

### Angled dowels

- Suitable for applications requiring angled joints
- Suitable for use with all Ø12mm and Ø15mm Cam2000 products
- Adjustable angle from 90° to 180°

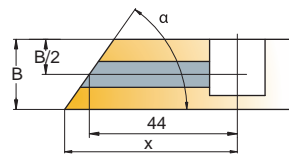
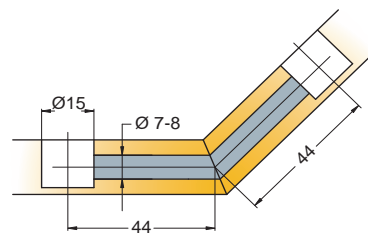


Technical and mounting details

Item number

Zinc plated

Angled dowel



05860 →

883

Distance x in mm

α	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	67,5°	70°	75°	80°	85°
<b>13</b>	61.9	57.9	55.3	53.5	51.7	50.5	49.5	48.6	47.8	47	46.7	46.4	45.7	45.1	44.6
<b>15</b>	64.6	60.1	57	54.7	52.9	51.5	50.3	49.3	48.3	47.5	47.1	46.7	46	45.3	44.7
<b>16</b>	66	61,2	57,9	55,4	53,5	52	50,7	49,6	48,6	47,7	47,3	46,9	46,1	45,4	44,7
<b>B 18</b>	68,8	63,3	59,6	56,9	54,7	53	51,6	50,3	49,2	48,2	47,7	47,3	46,4	45,6	44,8
<b>19</b>	70.1	64,4	60,5	57,6	55,3	53,5	52	50,7	49,5	48,4	47,9	47,5	46,5	45,7	44,8
<b>22</b>	74,2	67,6	63,1	59,7	57,1	55	53,2	51,7	50,4	49,1	48,6	48	46,9	45,9	45
<b>23</b>	75,6	68,7	63,9	60,4	57,7	55,5	53,6	52,1	50,6	49,4	48,8	48,2	47,1	46	45 x

650 Pcs

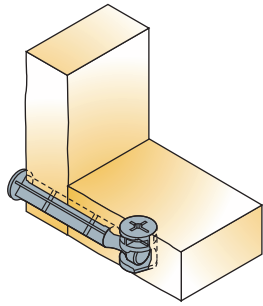
Made of steel

# System 5

## Cams and dowels

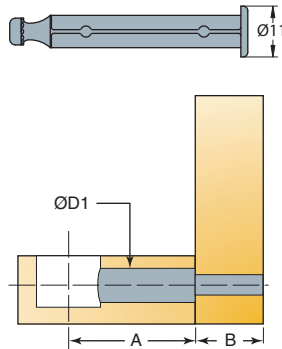
### End dowels

- Available in a variety of head and length combinations to suit most end panel applications
- Suitable for use with all Ø12mm and Ø15mm Cam2000 products
- 'Klix' locking feature provides a strong, vibration proof joint
- Both 'mushroom' and countersunk headed versions available



Technical and mounting details

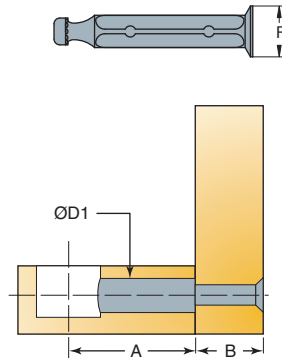
#### Mushroom dowel



1000 Pcs

Made of zinc

#### Countersunk dowel



1000 Pcs

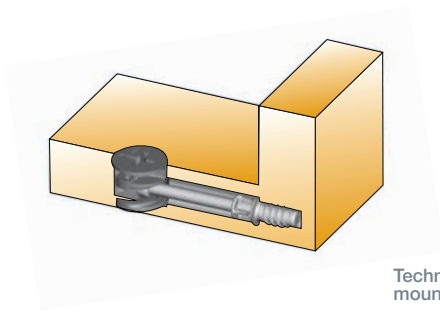
Made of zinc

A	B	D1	F	Item number	Zinc
Drilling distance	Panel thickness	Drilling diameter for dowel body	Head diameter		
24	16	7-8		<b>05608</b> →	885
24	19	7-8		<b>05609</b> →	885
34	16	7-8		<b>05610</b> →	885
34	19	7-8		<b>05611</b> →	885
24	16	7-8	11	<b>05786</b> →	885
24	19	7-8	11	<b>05787</b> →	885
20	16	6-7	10	<b>05905</b> →	885

# System 5 Cams and dowels

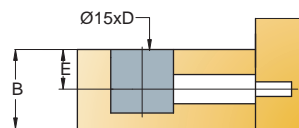
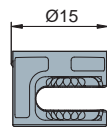
## Vitro

- Alternative product for 5644 zinc made cam
- Suitable for use with Titus Combi dowels and forged steel dowels
- "Klix" locking feature provides a strong, vibration proof joint
- Linear cam profile results in smooth, easy cam rotation and dowel pull-up



Technical and mounting details

Vitro



B	D	E	Item number	Silver grey
Panel thickness	Drilling depth	Drilling for dowel		
15/16	12	7.5	<b>09431</b> →	886

10000 Pcs

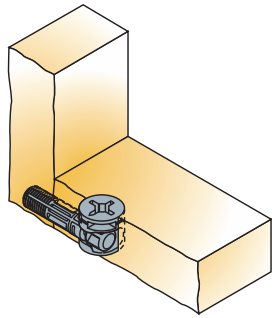
Made of high grade plastic

# System 5

## Cams and dowels

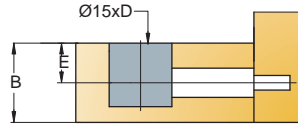
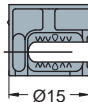
### Ø15mm Cam2000

- Available in a variety of head, drive recess and board thickness versions to suit most applications
- Suitable for use with all Titus dowels
- "Klix" locking feature provides a strong, vibration proof joint
- Linear cam profile results in smooth, easy cam rotation and dowel pull-up







Technical and mounting details

Cam2000  
Ø15



Made of zinc

	B	D	E	Item number	Nickel	Zinc plated	Zinc	
	12/13	10min	6-6.5	<b>*05587</b> →		883	885	
	12/13	10.9	6-6.5	<b>05653</b> →	847	883	885	
	15/16	12.7	7.5-8	<b>05644</b> →	847	883	885	
	15/16	12.7	7.5-8	<b>05654</b> →	847	883	885	
	18/19	14	9-9.5	<b>05656</b> →	847	883	885	
	22/23	16	11-11.5	<b>05657</b> →	847	883	885	
	25/26	17.9	12.5-13	<b>05676</b> →	847	883	885	
	28/29	19.4	14-15.5	<b>05678</b> →	847	883	885	
	29	19.4	14.5	<b>05679</b> →	847	883	885	
	<i>Other finishes on request</i>							
<b>*Ultraflat</b> - specially designed for thin panels (does not work with TL dowels)								
	12	10min	6	<b>*05586</b> →	847	883	885	
		13	10.9min	6.5	<b>05652</b> →	847	883	885
		16	12.9	8	<b>05658</b> →	847	883	885
		19	14.4	9.5	<b>05659</b> →	847	883	885
		23	16.4	11.5	<b>05675</b> →	847	883	885
		26	18	13	<b>05677</b> →	847	883	885
<i>Other finishes on request</i>								
<b>*Ultraflat</b> - specially designed for thin panels (does not work with TL dowels)								

Made of zinc



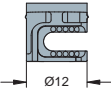
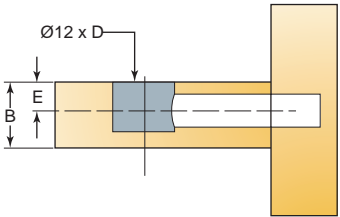


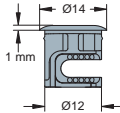
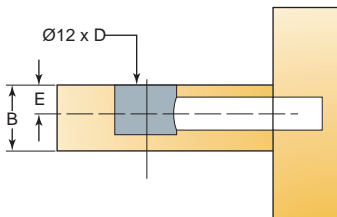
Cover caps for Cams → see page 1.56

# System 5

## Cams and dowels

### Ø12mm Cam2000

- Suitable for all Titus screw-in dowels
- Available in a variety of head, drive recess and board thickness versions to suit most applications
- Particularly suited to drawer front attachment applications
- 'Klix' locking feature provides a strong, vibration proof joint
- Linear cam profile results in smooth, easy cam rotation and dowel pull-up

		B	D	E					
Technical and mounting details		Panel thickness	Drilling depth	Drilling for dowel	Item number	Black painting plate	Nickel plated	Zinc	Corrosil zinc
<b>Cam2000</b> <b>Ø12</b>      <p>Made of zinc</p>	12/13	10min	6-6.5	<b>05575</b> →	838	847	885	897	
	15/16	12	7.5-8	<b>05578</b> →			885		
	18/19	13min	9-9.5	<b>05580</b> →			885		
	<i>Other finishes on request</i>								
<b>Cam2000</b> <b>Ø12 headed</b>      <p>Made of zinc</p>	12	9.2min	5.25	<b>05574</b> →	838	847	885	897	
	12	10min	6	<b>05576</b> →			885		
	16	12.5	8	<b>05579</b> →			885		
	19	14	9.5	<b>05581</b> →			885		
	<i>Other finishes on request</i>								

Cover caps for Cams → see page 1.56

# System 6 Quickfit-Expando connectors

## System features

A face boring connector family for 32mm system drilling with full range of panel and application variants for all cabinet manufacturing applications

- Minimum drilling requirements
- Linear cam design for constant tightening loads when driving
- Angledriv feature on cam for maximum driving comfort
- Interchangeable pins for wood, plastic and steel applications
- Pins with twinstart drive for fast insertion
- Interchangeable Quickfit pin fastenings available
- Toolless fastening capable versions
- Back-to-back fastenings for common vertical panel fixing of shelves

System 6 consists of a range of 20mm and 25mm diameter housings, Quickfit™ and conventional dowels, end dowels and double ended dowels.

Housings are made from high grade plastic or zinc, with zinc cams.

Wedgefix-6 connector is a special fastener without cam, simply to snap onto a pre-inserted dowel.

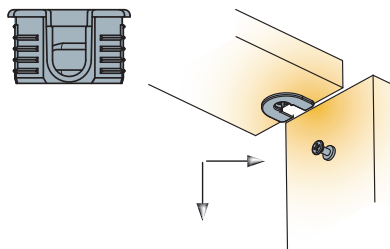
## Applications

Titus System 6 is ideal for use in high volume production of case goods, closet and garage storage systems. Because no edge boring

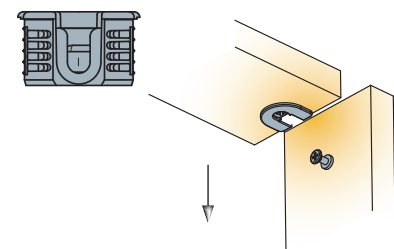
is required, it is an excellent choice for manufacturing environments with limited drilling capacity.

## Side-entry Drop-on

**Side-entry** insertion of shelf panel:  
from the side or from the top

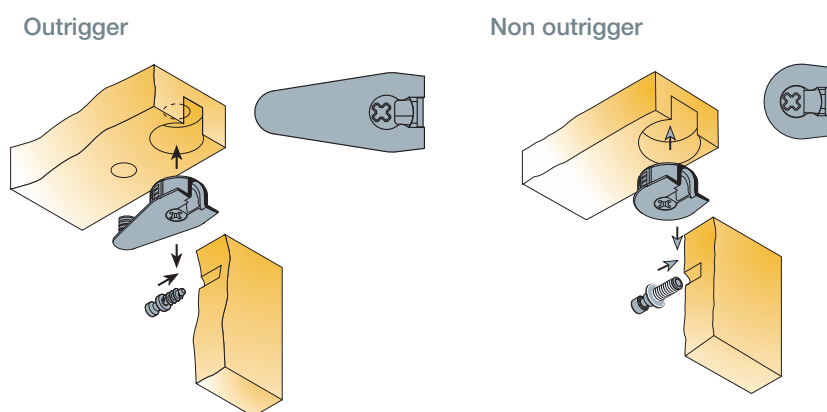


**Drop-on** insertion of shelf panel:  
only from the top



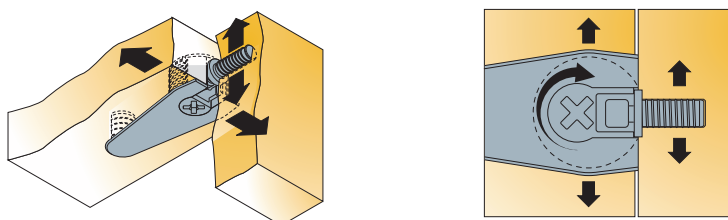
## System features

Outrigger  
Non outrigger



Expando function

Expanding housings and dowels provide a tight joint.

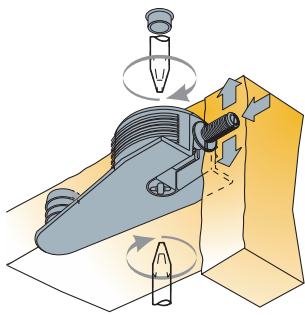


# System 6

## Quickfit-Expando

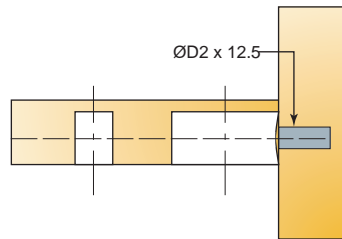
### Expanding dowels

- Available in Ø5mm, Ø8mm and Ø10mm for panel-to-panel, panel-to-hollow profile and back-to-back applications
- Suitable for applications with all Titus Ø20 and/or Ø25mm Expando-6 housings
- 'Klix' locking feature provides a strong, vibration proof connection
- Depth stop collar for accurate insertion



Technical and mounting details

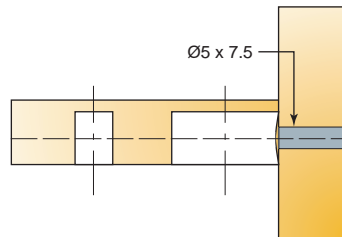
Dowel Ø5 and Ø8



5000 Pcs

Made of zinc, plastic

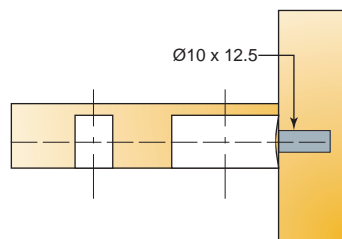
Ø5 x 7.5 back-to-back applications



5000 Pcs

Made of zinc, plastic

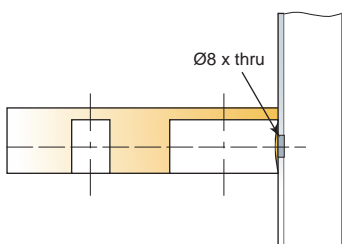
Ø10 x 12



2000 Pcs

Made of zinc

Ø8 x thru panel-to-frame applications





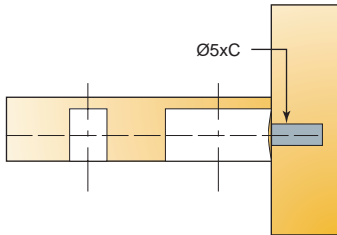



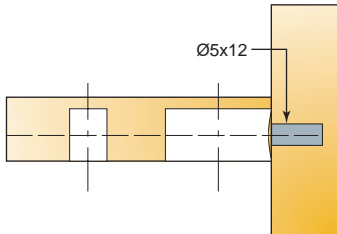


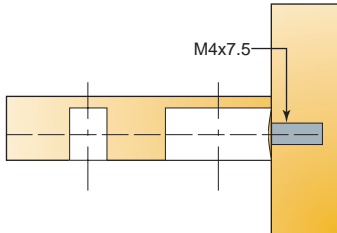


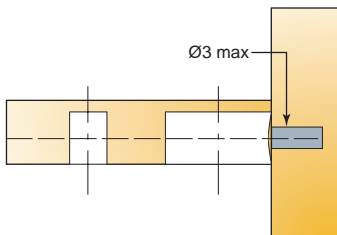
4000 Pcs

Made of zinc, plastic

D2	Drilling diameter for dowel thread	Item number	Dark grey	Black	Zinc
5		06408 →	880		
8		06410 →	880		
		06479 →	880		
		06350 →			885
		06477 →			835

# System 6 Quickfit-Expando Dowels

- Available in various Ø3mm and/or Ø5mm thread forms for screw-in, knock-in and/or 'spiked' hole applications
- Suitable for applications with all Titus Ø20mm and/or Ø25mm Expando-6 housings
- 'Klix' locking feature provides a strong, vibration proof connection
- Dowels feature an integral skirt which acts as a positive stop during insertion

Technical and mounting details			C		Zinc	Zinc plated
			Drilling length for dowel thread	Item number		
<b>Dowel</b>    <p>Ø5xC</p>	 2000 Pcs	Made of zinc	9	06401 →	885	
			8	06402 →	885	
			11.5	06406 →	885	
<b>Ø5 x 11 knock-in</b>    <p>Ø5x12</p>		Made of zinc		06403 →	885	
<b>M4 x 7</b>    <p>M4x7.5</p>		Made of zinc		06405 →	885	
<b>Ø3 x 11.5</b>    <p>Ø3 max</p>		Made of steel		06495 →	883	

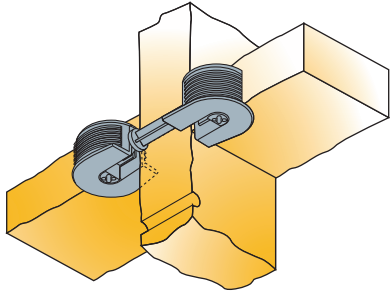
Inserts → see page 1.57  
Sleeves → see page 1.51

# System 6

## Quickfit-Expando

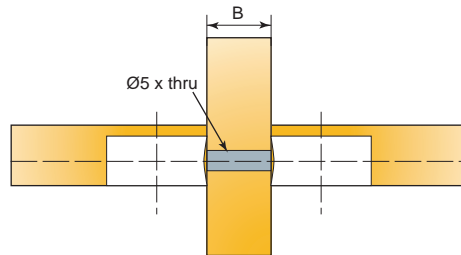
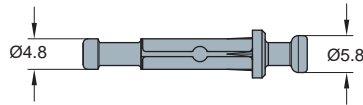
### Double-ended dowels

- For 16mm, 18mm and 19mm board
- Suitable for applications with all Titus Ø20mm and/or Ø25mm Expando-6 housings
- 'Klix' locking feature provides a strong, vibration proof connection



Technical and mounting details

Double-ended dowel



Made of zinc

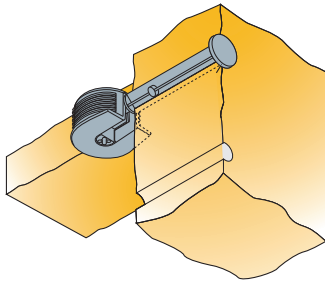
Panel thickness	Item number	Zinc
16	06414 →	885
18	06413 →	885
19	06416 →	885

# System 6

## Quickfit-Expando

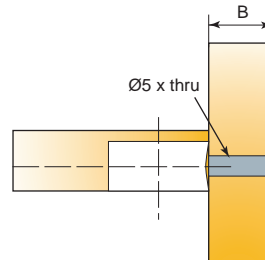
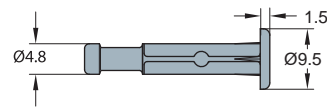
### End dowels

- For 16mm, 18mm and 19mm board
- Suitable for applications with all Titus Ø20mm and/or Ø25mm Expando-6 housings
- 'Klix' locking feature provides a strong, vibration proof connection



Technical and mounting details

End dowel



Made of zinc


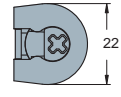
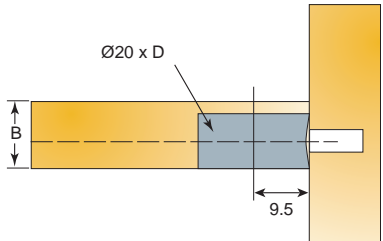

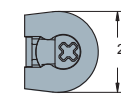
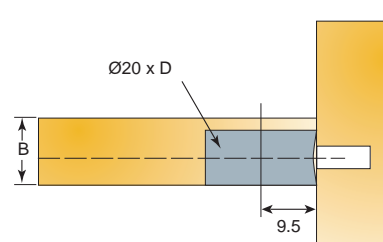
Panel thickness	Item number	Zinc
16	06412 →	885
18	06411 →	885
19	06415 →	885

# System 6

## Quickfit-Expando

20mm expanding housing  
non-outrigger

- Available in 15mm/16mm and 18mm/19mm versions for drop-on and/or side-entry applications
- Available in all-metal or plastic/metal options
- 'Klix' locking feature provides a strong vibration proof connection
- Compatible with all screw-in and Quickfit-6 dowels

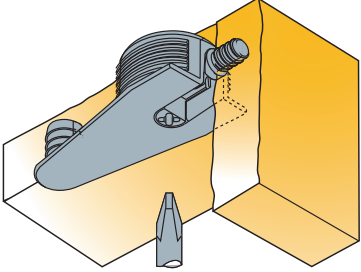
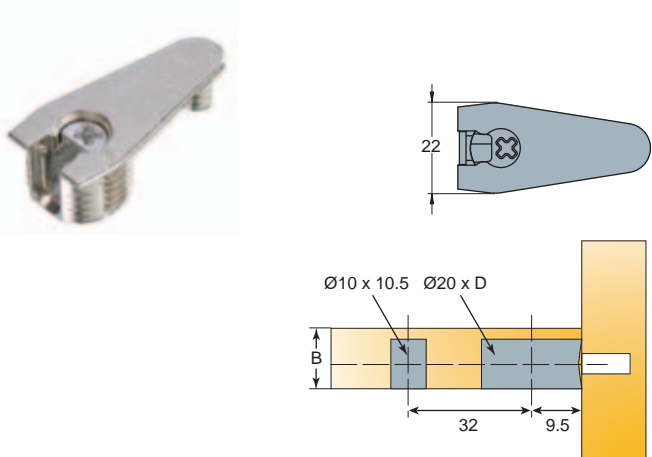
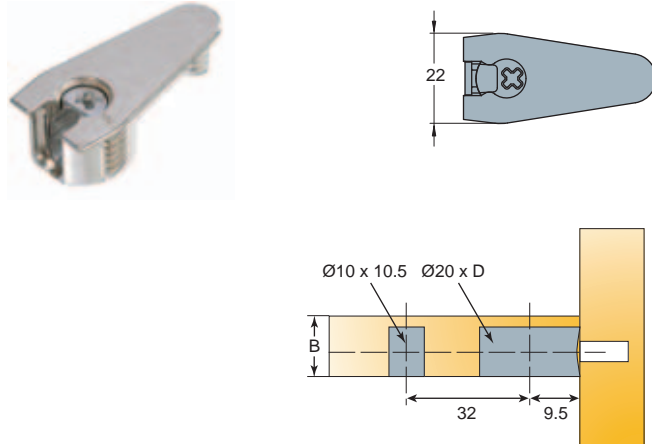
Technical and mounting details		B	D	Item number	Dark brown plastic	Nickel plated	Silver plastic	White plastic
Panel thickness	Drilling depth							
								
<b>Side-entry</b>   		15/16	12.5	<b>06451</b> →	847			
		18/19	14	<b>06453</b> →	847			
		15/16	12.5	<b>06435</b> →	831	861	877	
		18/19	14	<b>06437</b> →	831	861	877	
<p>Made of zinc or zinc, plastic</p>		<i>Other colours on request</i>						
<b>Drop-on</b>   		15/16	12.5	<b>06447</b> →	847			
		18/19	14	<b>06449</b> →	847			
		15/16	12.5	<b>06431</b> →	831	861	877	
		18/19	14	<b>06433</b> →	831	861	877	
<p>Made of zinc or zinc, plastic</p>		<i>Other colours on request</i>						

# System 6

## Quickfit-Expando

### 20mm expanding housing outrigger

- Available in 15mm/16mm and 18mm/19mm versions for drop-on and/or side-entry applications
- Available in all-metal or plastic/metal options
- 'Klix' locking feature provides a strong vibration proof connection
- Compatible with all screw-in and Quickfit-6 dowels

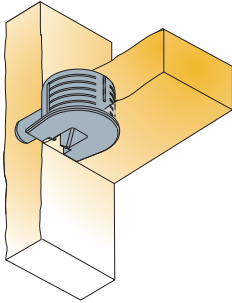
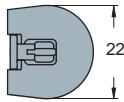

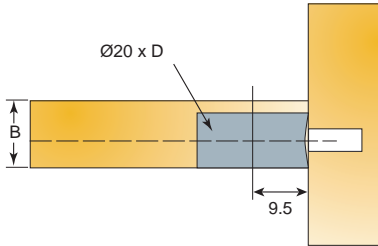


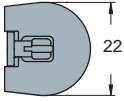

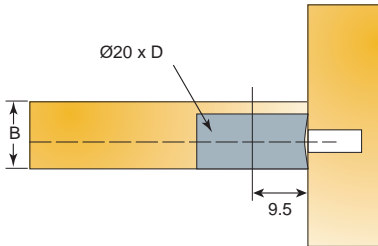

Technical and mounting details		B	D	Material options			
Panel thickness	Drilling depth	Item number	Dark brown plastic	Black plastic	Nickel plated	White plastic	
 <p>Technical and mounting details</p>							
<b>Side-entry</b>  <p>Made of zinc or zinc, plastic</p>		15/16	12.5	<b>06443</b> →	831 835	847 877	
		18/19	14	<b>06445</b> →	831 835	877	
		15/16	12.5	<b>06459</b> →		847	
		18/19	14	<b>06461</b> →		847	
		<i>Other colours on request</i>					
<b>Drop-on</b>  <p>Made of zinc or zinc, plastic</p>		15/16	12.5	<b>06439</b> →	831 835	877	
		18/19	14	<b>06441</b> →	831 835	877	
		15/16	12.5	<b>06455</b> →		847	
		18/19	14	<b>06457</b> →		847	
		<i>Other colours on request</i>					

# System 6

## Quickfit-Expando

### Expanding Wedgefix housing (no inner cam)

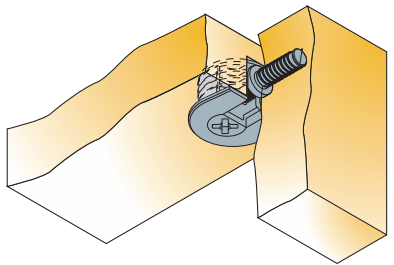

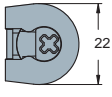
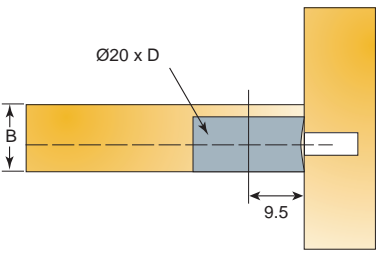



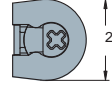
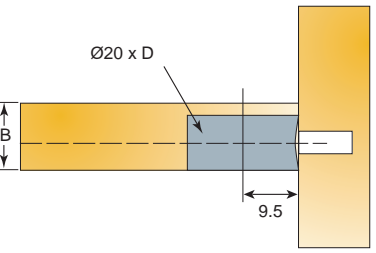

- Available in 12mm, 15mm/16mm and/or 18mm/19mm versions for Quickfit-6 and/or Standard Dowel applications
- Available in a variety of plastic colours
- Wedgefix-6 housing allows easy customer hand-assembly or factory automated insertion
- When used with Quickfit-6 dowels this provides a true toolless fastening system

Technical and mounting details		B	D	Item number	White	Black	Dark brown	Silver
Panel thickness	Drilling depth							
<p>For use with screw-in dowels</p>    	12	10	<b>06470</b> →	877				
	15/16	12.5	<b>06473</b> →	877	835	831	861	
	18/19	14	<b>06465</b> →	877	835	831	861	
	22	16	<b>06464</b> →					861
<i>Other colours on request</i>								
 2500 Pcs	Made of plastic							
<p>For use with Quickfit dowels</p>    	15/16	12.5	<b>06471</b> →	877	835	831	861	
	18/19	14	<b>06472</b> →	877	835	831	861	
	<i>Other colours on request</i>							
 2500 Pcs	Made of plastic							

# System 6

## 20mm knock-in housing non-outrigger

- Available in 15mm/16mm and 18mm/19mm versions for drop-on and/or side-entry applications
- Available in all-metal or plastic/metal options
- 'Klix' locking feature provides a strong vibration proof connection
- Compatible with all screw-in and Quickfit-6 dowels

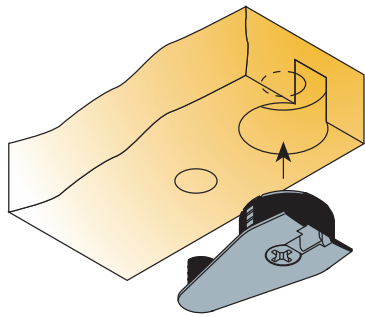
Technical and mounting details		B	D	Item number	Nickel plated	Silver plastic	White plastic
Side-entry		15/16	12.5	<b>06381</b> →		861	877
		18/19	14	<b>06385</b> →		861	877
  		<p>Product available on American and Asian market only</p> <p>Other colours on request</p>					
 2500 Pcs <span style="margin-left: 20px;">Made of zinc, plastic</span>							
Drop-on		15/16	12.5	<b>06383</b> →	847	861	877
		18/19	14	<b>06387</b> →		861	877
  		<p>Product available on American and Asian market only</p> <p>Other colours on request</p>					
 2500 Pcs <span style="margin-left: 20px;">Made of zinc or zinc, plastic</span>							



# System 6 Quickfit-Expando

25mm heavy duty  
expanding housing  
outrigger

- Suitable for 12mm, 15mm/16mm and 18mm/19mm board for drop-on and/or side-entry applications
- Available in all-metal
- 'Klix' locking feature provides a strong vibration proof connection
- Compatible with all screw-in and Quickfit-6 dowels
- For maximum performance use 6350 all metal Ø10mm dowel

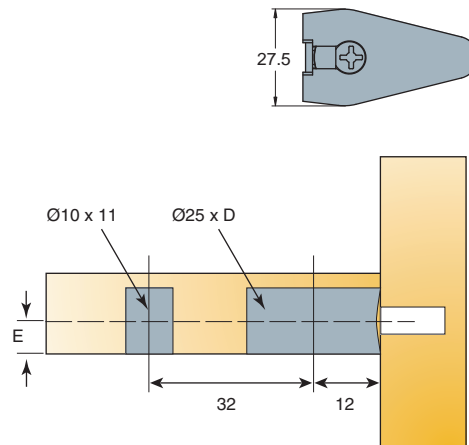


Technical and mounting details

D	E	Item number	Nickel plated
Drilling depth	Drilling for dowel		

## Drop-on

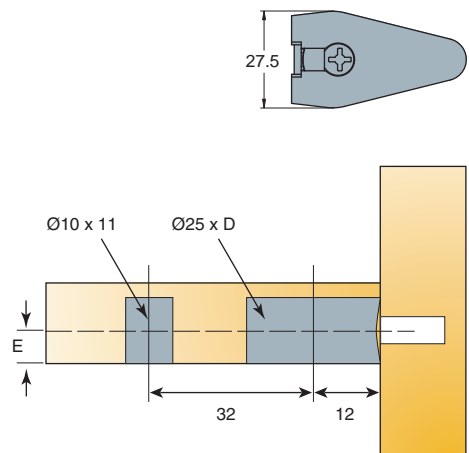
11	5	06947 →	847
----	---	---------	-----



Made of zinc

## Side-entry


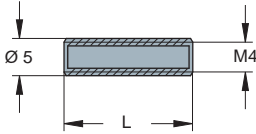


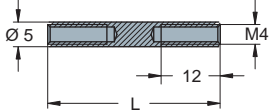

11	5	06951 →	847
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Made of zinc

# System 6

## M4 connecting sleeves

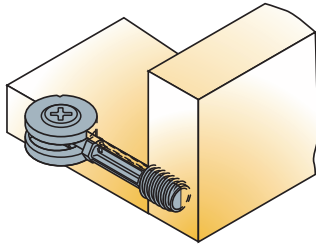
		L		
		Length	Item number	Raw
Technical details				
Sleeve		15	270.2046. →	400
		17	270.2047. →	400
				
 10000 Pcs	Made of brass			
Sleeve		28	385.2166. →	400
		31	385.2252. →	400
		35	385.2237. →	400
		43	385.2169. →	400
				
 5000 Pcs	Made of brass			

# System 7

## Heavy duty Ø20mm

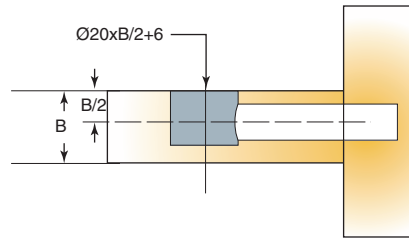
### Cam and dowel

- Dowel available with Ø10mm eurothread and cam available in Ø20mm for a variety of panel thicknesses
- 'Klix' locking feature provides strong, vibration proof joint
- High strength product that eliminates the need for time consuming metal inserts



Technical and mounting details

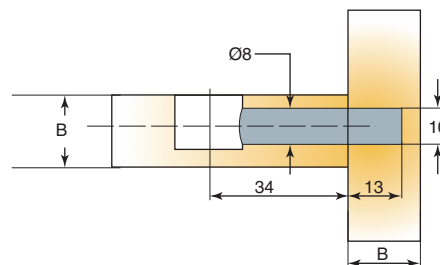
Cam Ø20



500 Pcs

Made of zinc

Dowel Ø7  
Ø10 mm thread



500 Pcs

Made of zinc

B	Item number	Zinc
Panel thickness		
18 min	05409 →	885
18 min	05410 →	885

# System 7

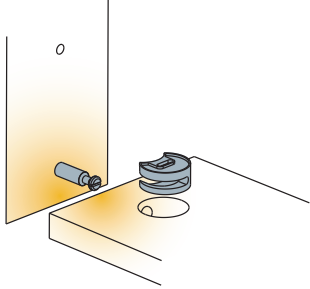
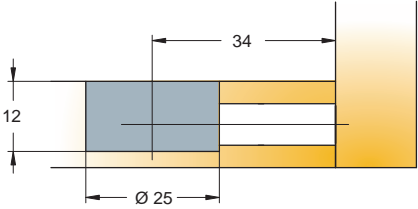


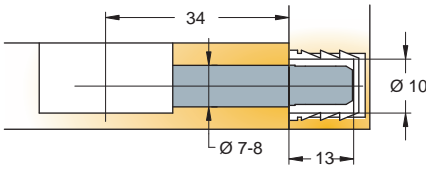
## Heavy duty Ø25mm

### Cam and dowel



Cam not compatible with other dowels

- For 13mm and thicker panels
- Cam drilling distance is 34mm
- A flat slot screwdriver must be used for cam tightening
- Decorative cover caps are available in different colours
- Dowel for direct installation in 5mm holes

 <p>Technical and mounting details</p>	Item number	Raw	Zinc plated blue
<p><b>Cam</b></p>  <p>1000 Pcs      Made of zinc</p> 	275.3096. →	600	
<p><b>Dowel with euro thread</b></p>  <p>1000 Pcs      Made of steel</p> 	275.2209. →		040
<p><b>M6 dowel</b></p>  <p>1000 Pcs      Made of steel</p> 	275.2030. →		000 040

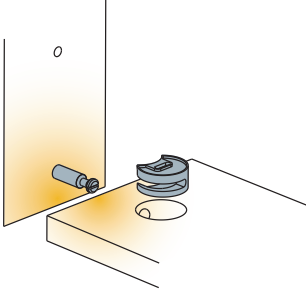
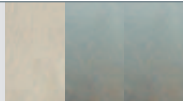
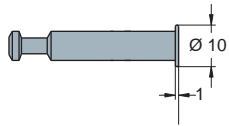

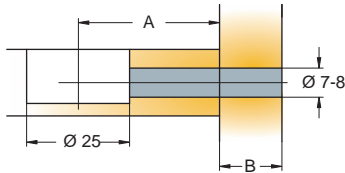

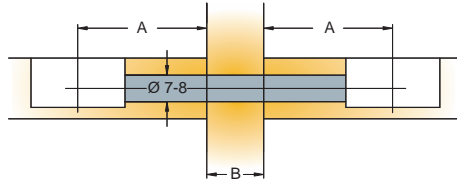

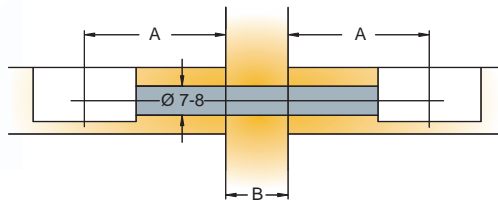
Inserts → see page 1.57

# System 7

## Heavy duty dowels



Heavy duty only. Can't be used with other dowels.

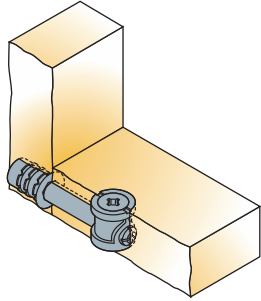
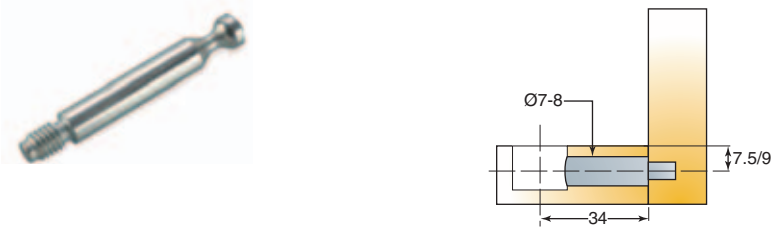
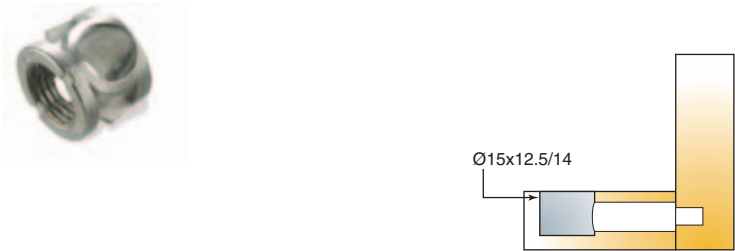

 <p>Technical and mounting details</p>	A	B	Item number	 Raw Zinc plated blue Brass plated black
<p><b>End dowel</b></p>    <p>500 Pcs      Made of steel</p>	52-B		275.2146. →	040 *085  <i>* Available upon special request → see chapter Important Information</i>
<p><b>Dowel with circlip</b></p>   <p>500 Pcs      Made of steel</p>	34	20	275.0103. →	040
	34	17	275.0106. →	040
<p><b>Dowel without circlip</b></p>   <p>500 Pcs      Made of steel</p>	34	20	275.2057. →	000 040
	34	18	275.2058. →	040

# System 7

## High strength connectors

### Contract fix™ system

- High performance fastener
- Thread design gives repeatability
- Multi-drive recess
- Higher than average pull up


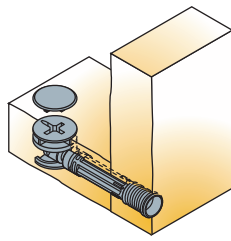
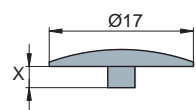

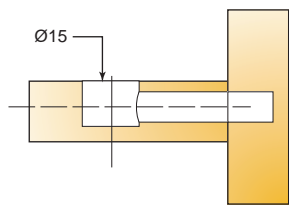
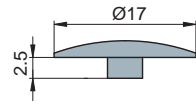

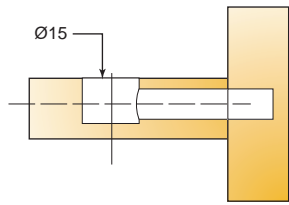
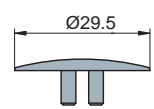

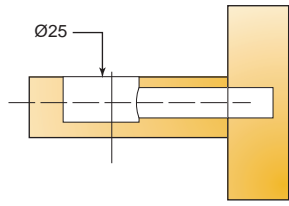
 <p>Technical and mounting details</p>	Item number	Zinc plated	Zinc
<p><b>Dowel 7x34</b></p>  <p>1000 Pcs      Made of steel</p>	05971 →	883	
<p><b>Housing cylinder 15x12</b></p>  <p>1000 Pcs      Made of zinc</p>	05960 →	885	
<p><b>Grub screw</b></p>  <p>2500 Pcs      Made of zinc</p>	05917 →	885	

Inserts → see page 1.57

# Accessories for connectors


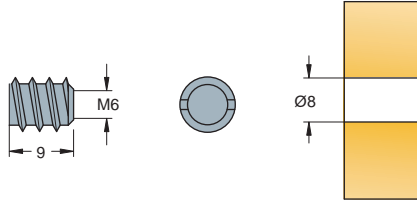

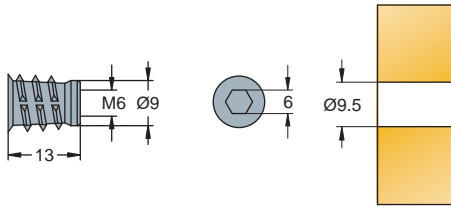

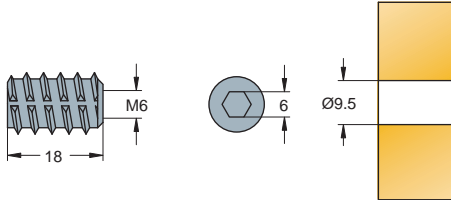

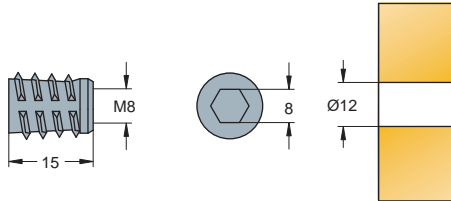
## Cover caps

- Available in a variety of colours
- Suitable for use with both pozi and hex cam drive features
- Suitable for use with various diameter cams
- Both domed and flat versions available

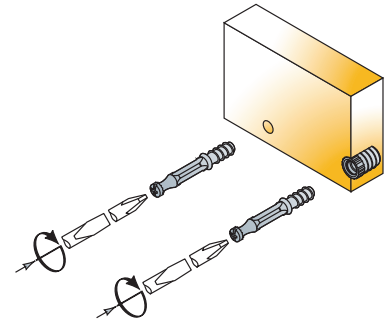
		X					
Technical and mounting details		Item number	Dark brown	Black	Light brown	Light grey	
 Cover cap Ø17		2.5	<b>01026</b> →	831	835	867	882
		3.3	<b>*01029</b> →	834	835	867	882
		2.5	<b>277.4355.</b> →	370	390	330	380
 25000 Pcs Made of plastic		<i>*American market only            Other colours on request</i>					
Cover cap Ø17		<b>277.4225.</b> → 370 390 330 380					
		<i>Other colours on request</i>					
 50000 Pcs Made of plastic							
Cover cap Ø29.5		<b>275.4034.</b> → 370 390 330 380					
		<i>Other colours on request</i>					
 10000 Pcs Made of plastic							


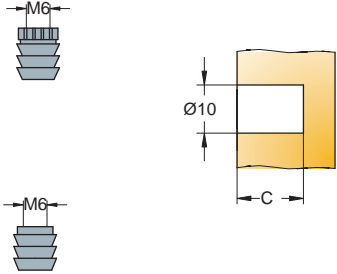

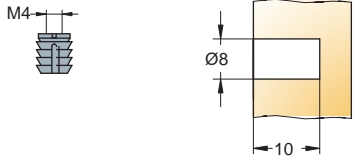


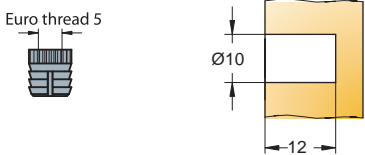
# Accessories for connectors

## Inserts

Technical and mounting details			Item number	Raw
<p>Ø8 x 9</p>   <p>5000 Pcs      Made of zinc</p>	408.3166. →	600		
<p>Ø9 x 13</p>   <p>5000 Pcs      Made of zinc</p>	408.3391 →	600		
<p>Ø9.5 x 18</p>   <p>1000 Pcs      Made of zinc</p>	408.3423. →	600		
<p>Ø12 x 15</p>   <p>1000 Pcs      Made of zinc</p>	408.3424. →	600		

- Available in both zinc and plastic for use in various applications
- Suitable for use with various threaded dowels
- Suitable for use with various panel thicknesses
- Knock-in and screw-in versions available



Technical and mounting details		C	Drilling length for insert	Item number	Material	
					Raw	Natural
<b>Ø10 x 13</b> 		13	275.4035. →	200		
		11	275.4058. →	200		
Made of plastic						
<b>Ø8 x 10</b> 			276.4036. →	200		
 50000 Pcs	Made of plastic					
<b>Euro thread</b> 		single start thread	02172 →	846		
		twinstart thread	02182 →	846		
Made of plastic						