

CAPTIVE SCREWS

PRODUCT GUIDE

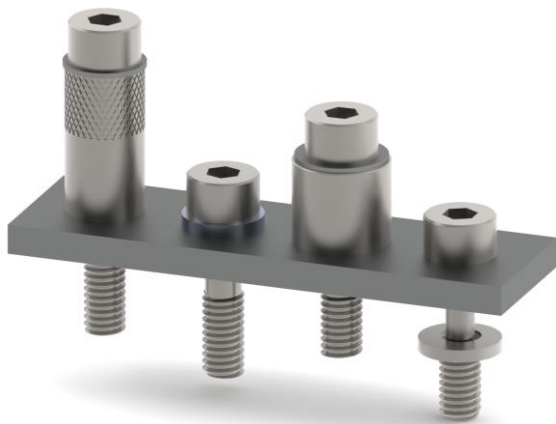


Your added
value solution
provider



Captive Screws from Clarendon Specialty Fasteners

Captive Screws, designed and manufactured by Clarendon Specialty Fasteners, offer the ability to captivate screws to a panel, structure, vehicle or machine guard and can be used across a variety of industry sectors including Aerospace, Defence and Industrial.



Having the ability to captivate screws to a panel or structure prevents the loss of fasteners during any maintenance operations, reduces downtime and simplifies the process.

KEY BENEFITS:

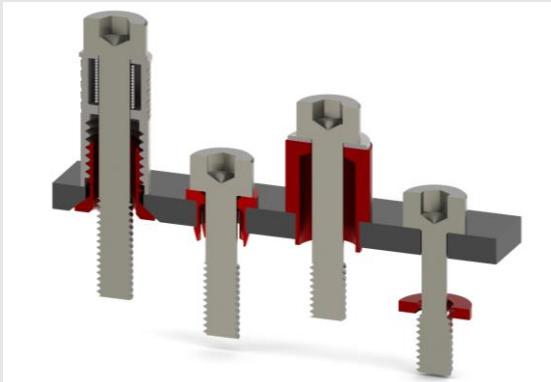
- Manufactured in the UK by Clarendon Specialty Fasteners to AS 9100
- UK, European & US sourced material with full traceability.
- Lot traceable, material certification, PPAP, & FAIRS available
- Designed to aid compliance with the EU machine safety directive 2006/42/EC
- Prevents loss of fasteners during maintenance operations
- Reduces Foreign Object Damage (FOD)
- Reduces inventory count
- Eliminates downtime due to lost components

Configuration Options

Captive Screws, by Clarendon Specialty Fastener are available in many configurations, with multiple options such as head styles, drives, grommets, captivation methods, spring eject, diameter, length, materials and plating.

In addition to our extensive range detailed in the Captive Screw Product Guide, Clarendon Specialty Fasteners can offer bespoke designs to meet exact application requirements. Please contact us to discuss any bespoke requirements.

Captivation Styles



- Snap-In Ring
- Swaged










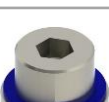



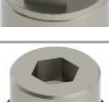
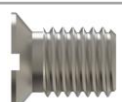





- Retainer Nut
- Reduced Shank










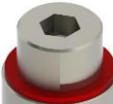






Drive Styles



- Socket Recess
- Hex Socket
- Slot Head
- Cross Recess

Reference	Illustration	Head Style	Material	Captivation Style	Spring Eject	Installation Page
501-MX			Screw: 316 St/Steel Grommet: Aluminium	SNAP-IN	NO	SNAP-IN P1 SNAP-IN P2 SNAP-IN P3
502-MX			Screw: 316 St/Steel Grommet: Aluminium	SNAP-IN	NO	
503-MX			Screw: 316 St/Steel Grommet: Aluminium	SNAP-IN	NO	
521-MX			316 St/Steel	SWAGED	NO	SWAGED-IN P1 SWAGED-IN P2
522-MX			316 St/Steel	SWAGED	NO	
541-MX			316 St/Steel	RETAINER NUT	YES	RETAINER NUT
003-1019-XXX (For use with 541-MX)			316 St/Steel	RETAINER NUT	N/A	
561-MX			316 St/Steel	REDUCED SHANK	NO	REDUCED SHANK
003-168-MX (For use with 561-MX)			316 St/Steel	REDUCED SHANK	NO	REDUCED SHANK & WASHER

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Reference	Illustration	Head Style	Material	Captivation Style	Spring Eject	Installation Page
<u>601-XXX</u>			Screw: 316 St/Steel Grommet: Aluminium	SNAP-IN	NO	<u>SNAP-IN P1</u> <u>SNAP-IN P2</u> <u>SNAP-IN P3</u>
<u>602-XXX</u>			Screw: 316 St/Steel Grommet: Aluminium	SNAP-IN	NO	
<u>603-XXX</u>			Screw: 316 St/Steel Grommet: Aluminium	SNAP-IN	NO	
<u>621-XXX</u>			316 St/Steel	SWAGED	NO	<u>SWAGED-IN P1</u> <u>SWAGED-IN P2</u>
<u>622-XXX</u>			316 St/Steel	SWAGED	NO	
<u>641-XXX</u>			316 St/Steel	RETAINER NUT	YES	<u>RETAINER NUT</u>
<u>003-1019-XXX</u> (For use with 641-XXX)			316 St/Steel	RETAINER NUT	N/A	



PART NUMBER CALL OUT

501 - M5 - 20 - P1

PATCH LOCK
(LEAVE BLANK IF NOT REQUIRED)

L1 UNDER HEAD LENGTH CODE
e.g. -20 = 20 mm

THREAD SIZE
e.g. M5 X 0.8-6g

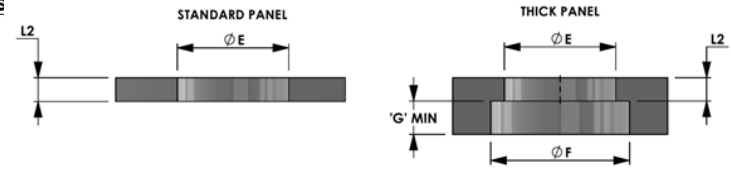
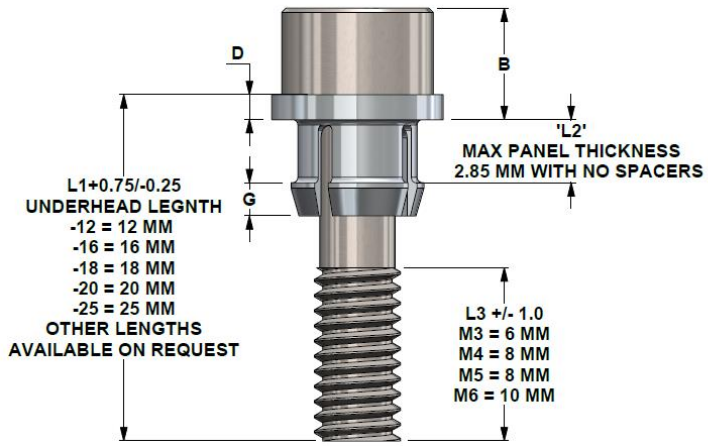
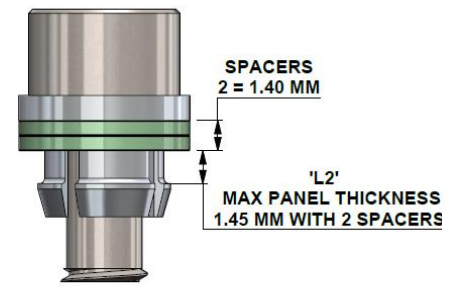
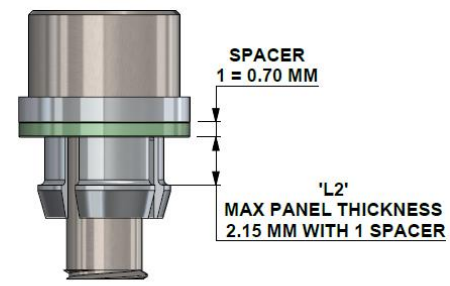
PRODUCT CODE
501 SOCKET CAP HEAD
SNAP-IN CAPTIVE SCREW

PART NUMBER EXAMPLE:

501-M4-16 P1 = M4 SNAP-IN CAPTIVE SCREW, 16 MM LONG FROM UNDER THE SCREW HEAD, WITH PATCH LOCK APPLIED

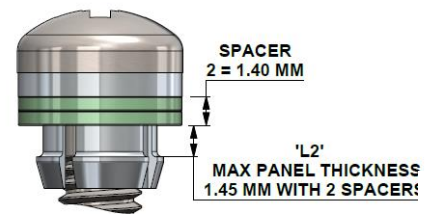
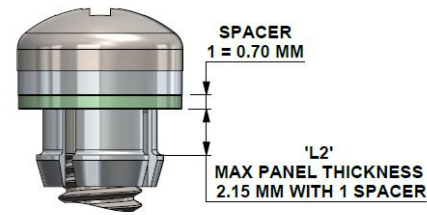
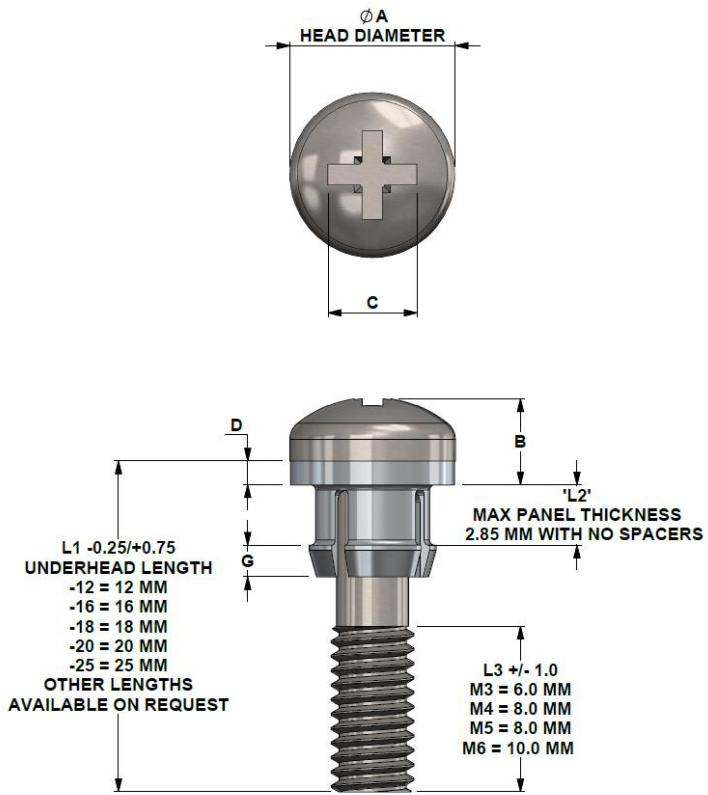
MATERIAL: SCREW: 316 (A4-70) STAINLESS STEEL, **GROMMET & SPACERS:** ALUMINIUM WITH SURTEC COATING, RoHS AND REACH COMPLIANT

ALL SNAP-IN CAPTIVE SCREW ASSEMBLIES WILL BE SUPPLIED WITH 2 SPACERS



METRIC SERIES										
Part Number	Min L1	Thread	A	B	C	D	PANEL PREP		G	
							E	F		
		Class 6g	Grommet Diam	Head + Flange HT	A/F Recess	Flange HT	Hole	C/Bore Diam Min	Snap legs	
501-M3-L1	12	M3 X 0.5	6.35	3.9	2.5	0.84	4.9 / 4.8	6.4	1.53	
501-M4-L1	16	M4 X 0.7	7.9	5.1	3.0	1.10	5.7 / 5.5	7.1		
501-M5-L1	20	M5 X 0.8	9.1	6.5	4.0	1.47	6.5 / 6.3	7.9		
501-M6-L1	20	M6 X 1.0	10.6	7.5	5.0	1.47	8.1 / 7.9	9.5		
HEAD DIMENSIONS TO BS EN ISO 4762							ROLLED THREAD TO BS 3643			

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PART NUMBER CALL OUT

502 - M5 - 20 - P1

PATCH LOCK
(LEAVE BLANK IF NOT REQUIRED)

L1 UNDER HEAD LENGTH CODE
e.g. -20 = 20 mm

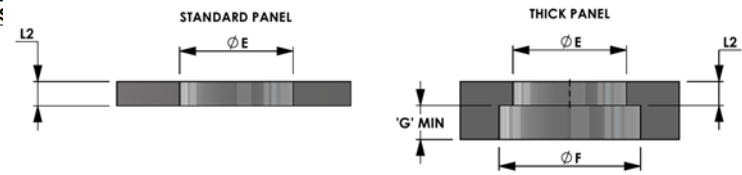
THREAD SIZE
e.g. M5 X 0.8-6g

PRODUCT CODE
502 CROSS RECESS HEAD SNAP-IN CAPTIVE SCREW

PART NUMBER EXAMPLE:
 502-M4-16 P1 = M4 SNAP-IN CAPTIVE SCREW, 16 MM LONG FROM UNDER THE SCREW HEAD, WITH PATCH LOCK APPLIED

MATERIAL: SCREW: 316 (A4-70) STAINLESS STEEL, **GROMMET & SPACERS:** ALUMINIUM WITH SURTEC COATING, RoHS AND REACH COMPLIANT

ALL SNAP-IN CAPTIVE SCREW ASSEMBLIES WILL BE SUPPLIED WITH 2 SPACERS



METRIC SERIES										
Part Number	Min L1	Thread	A	B	C	D	PANEL PREP		G	
							E	F		
		Class 6g	Head Diam	Head + Flange HT	DRIVE	Flange HT	Hole	C/Bore Diam Min	Snap legs	
502-M3-L1	12	M3 X 0.5	6.0	3.2	1	0.84	4.9 / 4.8	6.4	1.53	
502-M4-L1	16	M4 X 0.7	8.0	4.2	2	1.10	5.7 / 5.5	7.1		
502-M5-L1	20	M5 X 0.8	10.0	5.2	2	1.47	6.5 / 6.3	7.9		
502-M6-L1	20	M6 X 1.0	12.0	6.1	3	1.47	8.1 / 7.9	9.5		
Head Dimensions to ISO 7045 Type Z			Rolled Thread to BS 3643				All Dimensions in MM			

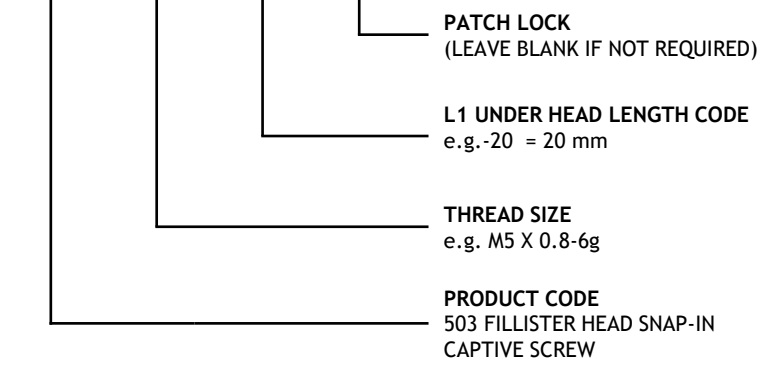
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PART NUMBER CALL OUT

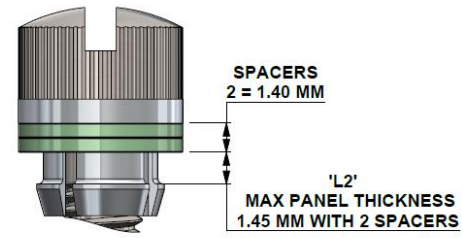
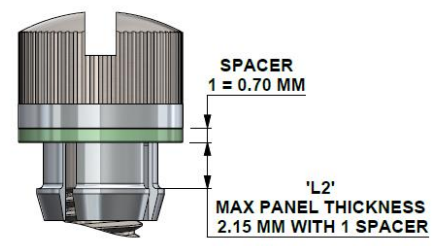
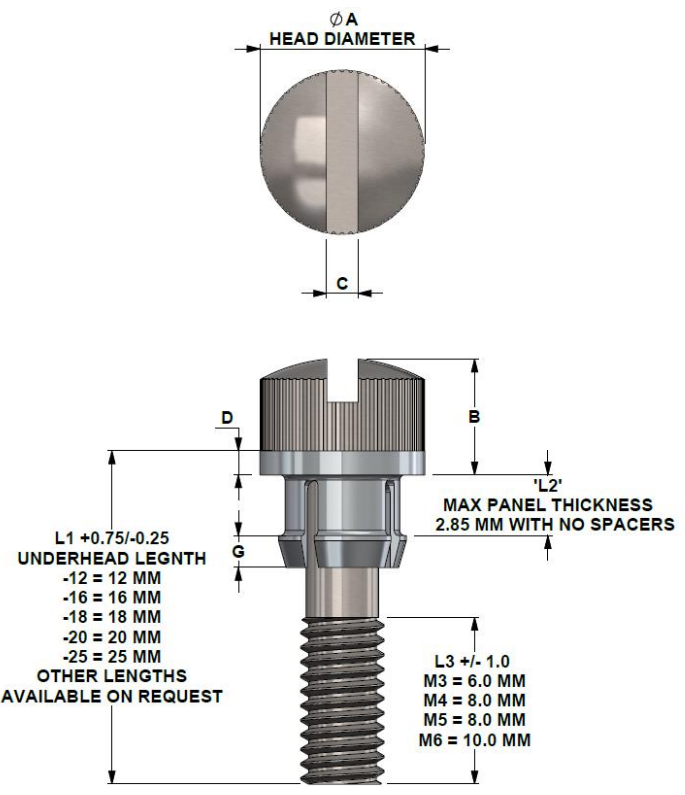
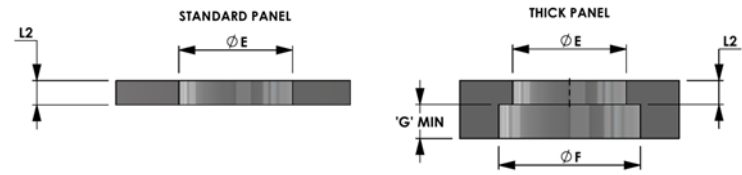
503 - M5 - 20 - P1



PART NUMBER EXAMPLE:
503-M4-16 P1 = M4 SNAP-IN CAPTIVE SCREW, 16 MM LONG FROM UNDER THE SCREW HEAD, WITH PATCH LOCK APPLIED

MATERIAL: SCREW: 300 SERIES STAINLESS STEEL, GROMMET & SPACERS: ALUMINIUM WITH SURTEC COATING, RoHS AND REACH COMPLIANT

ALL SNAP-IN CAPTIVE SCREW ASSEMBLIES WILL BE SUPPLIED WITH 2 SPACERS

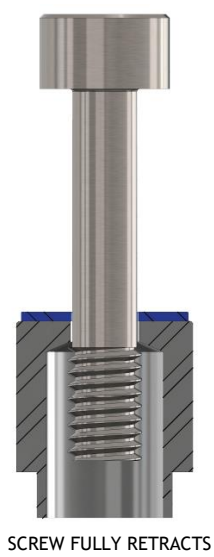
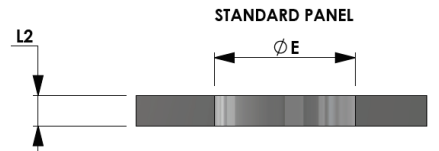
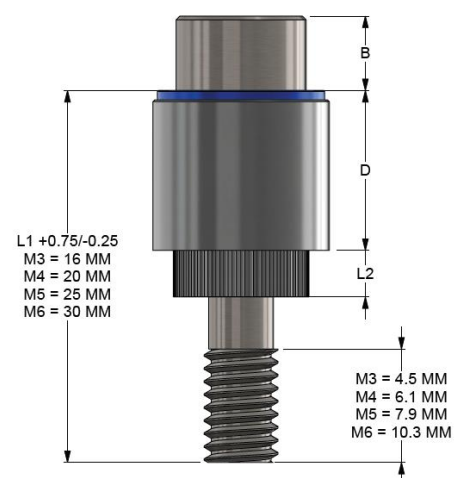
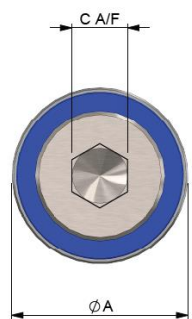


METRIC SERIES									
PART NUMBER	Min L1	Thread	A	B	C	D	PANEL PREP		G
							E	F	
		Class 6g	Head Diam	Head + Flange HT	Slot Max	Flange HT	Hole	C/Bore Diam Min	Snap legs
503-M3-L1	12	M3 X 0.5	6.4	3.8	1.37	0.84	4.9 / 4.8	6.4	1.53
503-M4-L1	16	M4 X 0.7	7.9	5.6	1.52	1.10	5.7 / 5.5	7.1	
503-M5-L1	20	M5 X 0.8	8.7	6.8	1.70	1.47	6.5 / 6.3	7.9	
503-M6-L1	20	M6 X 1.0	9.5	7.7	1.90	1.47	8.1 / 7.9	9.5	

Rolled Thread to BS 3643

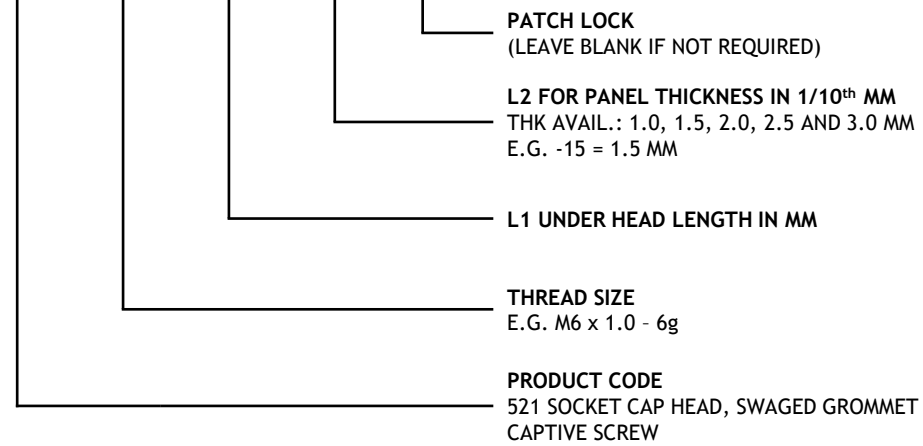
All Dimensions in MM

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PART NUMBER CALL OUT

521 - M6 - 30 - 15 P1



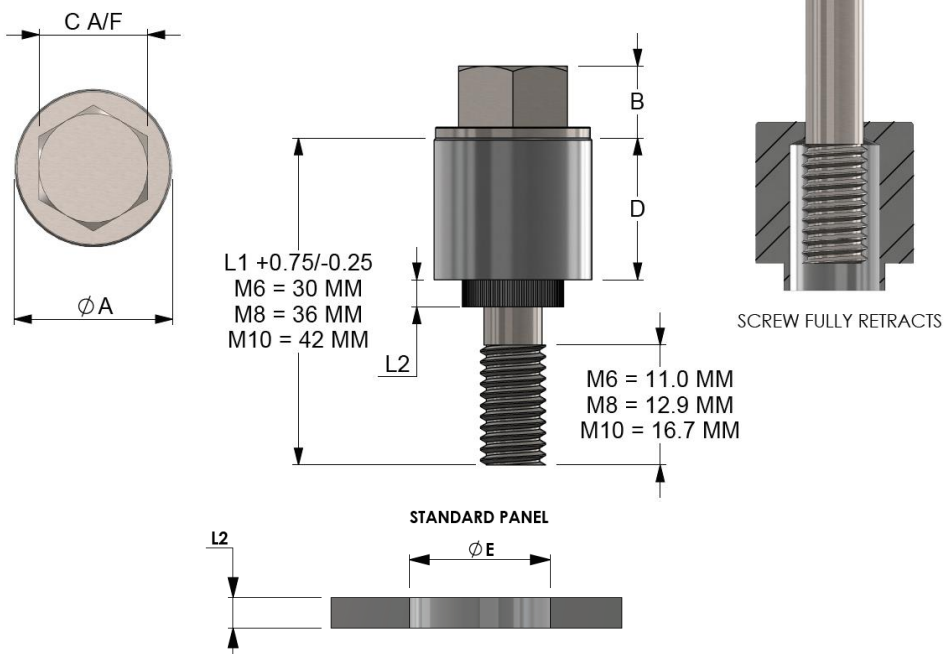
PART NUMBER EXAMPLE:
521-M6-30-15 = SWAGED GROMMET, M6 x 30 FOR 1.5 MM THICK PANEL, NO PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL
FINISH: NONE
RoHS AND REACH COMPLIANT

METRIC SERIES						
PART NUMBER	Thread	A	B	C	D	E
	Class 6g	O/D	Head Height	A/F Recess	Housing + Washer HT	Panel Prep Hole Dia
521-M3-16-XX	M3 x 0.5	7.5	3.0	2.5	6.8	6.5
521-M4-20-XX	M4 x 0.7	9.5	4.0	3	8.6	7.0
521-M5-25-XX	M5 x 0.8	10.5	5.0	4	11.4	8.5
521-M6-30-XX	M6 x 1.0	14.5	6.0	5	13.7	9.5
Head Dimensions to ISO 4762		Rolled thread to BS 3643			All Dimensions in MM	

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PART NUMBER CALL OUT

522 - M6 - 30 - 15 P1

- PATCH LOCK**
(LEAVE BLANK IF NOT REQUIRED)
- L2 FOR PANEL THICKNESS IN 1/10th MM**
THK AVAIL.: 1.0, 1.5, 2.0, 2.5 AND 3.0 MM
E.G. -15 = 1.5 MM
- L1 UNDER HEAD LENGTH IN MM**
- THREAD SIZE**
E.G. M6 x 1.0 - 6g
- PRODUCT CODE**
522 HEX FLANGE HEAD, SWAGED GROMMET CAPTIVE SCREW

PART NUMBER EXAMPLE:

522-M6-30-15 = SWAGED GROMMET, M6 x 30 FOR 1.5 MM THICK PANEL, NO PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

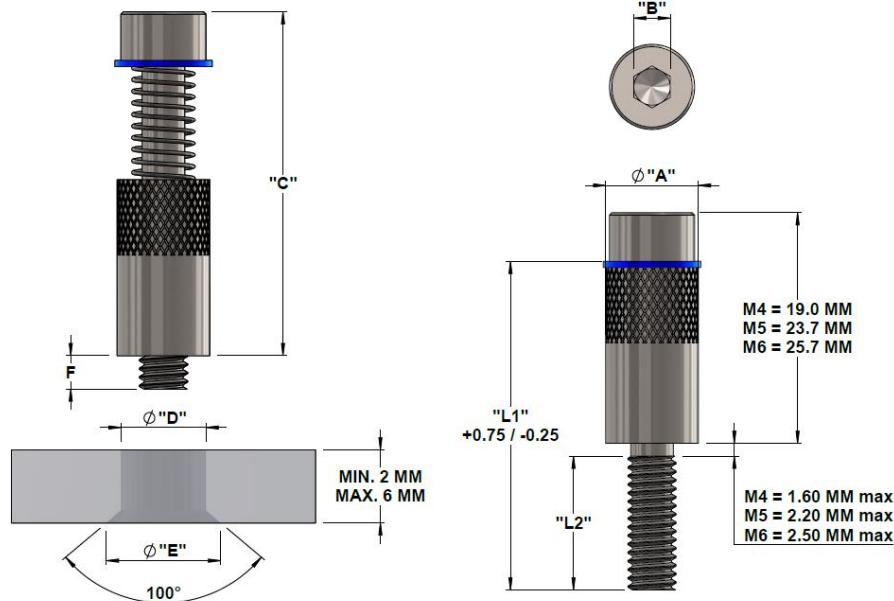
FINISH: NONE

RoHS AND REACH COMPLIANT

522 METRIC SWAGED HEX FLANGE HEAD CAPTIVE SCREW



PART NUMBER	METRIC SERIES					
	Thread	A	B	C	D	E
	Class 6g	O/D	Head Height	A/F Recess	Housing	Panel Prep Hole Dia
522-M6-30-XX	M6 x 1.0	14.5	6.6	10	13	9.5
522-M8-36-XX	M8 x 1.25	18.0	8.1	13	16.7	13
522-M10-42-XX	M10 x 1.5	22.3	9.2	15	18.5	15.5
Rolled thread to BS 3643				All Dimensions in MM		



PART NUMBER CALL OUT

541 - M4 - 25 - 1

FINISH
NO SUFFIX = NATURAL
1 = PASSIVATED
2 = STAYBLACK

L1 UNDER HEAD LENGTH IN MM
e.g. -20 = 20 mm

THREAD SIZE
e.g. M4 X 0.7-6g

PRODUCT CODE
541 SOCKET CAP HEAD, RETAINER NUT GROMMET CAPTIVE SCREW, SPRING EJECT

PART NUMBER EXAMPLE:
541-M4-25-1 = RETAINER NUT GROMMET, M4 x 25 MM , PASSIVATED

MATERIAL: 316 (A4-70) STAINLESS STEEL , **SPRING :** 300 SERIES
FINISH: SEE PART NUMBER CALL OUT
RoHS AND REACH COMPLIANT

RETAINER NUT SOLD SEPARATELY
SEE PAGE [003-1019](#)



METRIC SERIES									
PART NUMBER	Thread	A	B	C	PANEL PREP		F	L1	L2
	Class 6g	Grommet Diameter	A/F Recess	Above Panel Retracted (REF ONLY)	D	E			
541-M4-25	M4 X 0.7	7.6	3	28	Hole 6.5	C/Sink Diameter 10.2	Max. Protrusion 1.8	Under Head Length 25	Min. Thread Length 8.4
541-M4-27	M4 X 0.7	7.6	3	28	Hole 6.5	C/Sink Diameter 10.2	Max. Protrusion 3.8	Under Head Length 27	Min. Thread Length 10.4
541-M5-31	M5 X 0.8	10	4	36	Hole 8.5	C/Sink Diameter 12.1	Max. Protrusion 1.8	Under Head Length 31	Min. Thread Length 10
541-M5-33	M5 X 0.8	10	4	36	Hole 8.5	C/Sink Diameter 12.1	Max. Protrusion 3.8	Under Head Length 33	Min. Thread Length 12
541-M6-33	M6 X 1.0	12	5	38	Hole 10.5	C/Sink Diameter 14.7	Max. Protrusion 1.8	Under Head Length 33	Min. Thread Length 11
541-M6-35	M6 X 1.0	12	5	38	Hole 10.5	C/Sink Diameter 14.7	Max. Protrusion 3.8	Under Head Length 35	Min. Thread Length 13

Head Dimensions to ISO 4762 Rolled Thread to BS 3643 All Dimensions in MM

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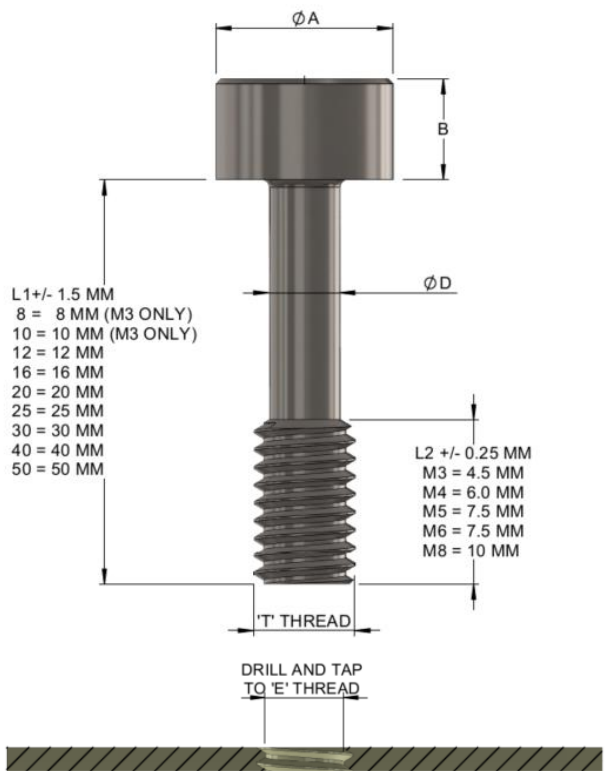
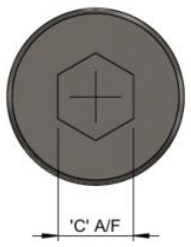
PART NUMBER CALL OUT

561 - M5 - 12 - 1 P1

- PATCH LOCK**
(LEAVE BLANK IF NOT REQUIRED)
- FINISH**
NO SUFFIX = NATURAL
1 = PASSIVATED
2 = STAYBLACK
- L1 UNDER HEAD LENGTH CODE**
e.g. -12 = 12 mm.
- THREAD SIZE**
e.g. M5 X 0.8-6g
- PRODUCT CODE**
561 SOCKET CAP HEAD REDUCED SHANK CAPTIVE SCREW

PART NUMBER EXAMPLE:
561-M5-12-1 P1 = M5 REDUCED SHANK CAPTIVE SCREW, 12 MM LONG UNDER HEAD, PASSIVATED WITH PATCH LOCK APPLIED

MATERIAL: 316 (A4) STAINLESS STEEL,
FINISH : SEE PART NUMBER CALL OUT
RoHS AND REACH COMPLIANT



- L1 +/- 1.5 MM
- 8 = 8 MM (M3 ONLY)
- 10 = 10 MM (M3 ONLY)
- 12 = 12 MM
- 16 = 16 MM
- 20 = 20 MM
- 25 = 25 MM
- 30 = 30 MM
- 40 = 40 MM
- 50 = 50 MM

- L2 +/- 0.25 MM
- M3 = 4.5 MM
- M4 = 6.0 MM
- M5 = 7.5 MM
- M6 = 7.5 MM
- M8 = 10 MM

PANEL PREP

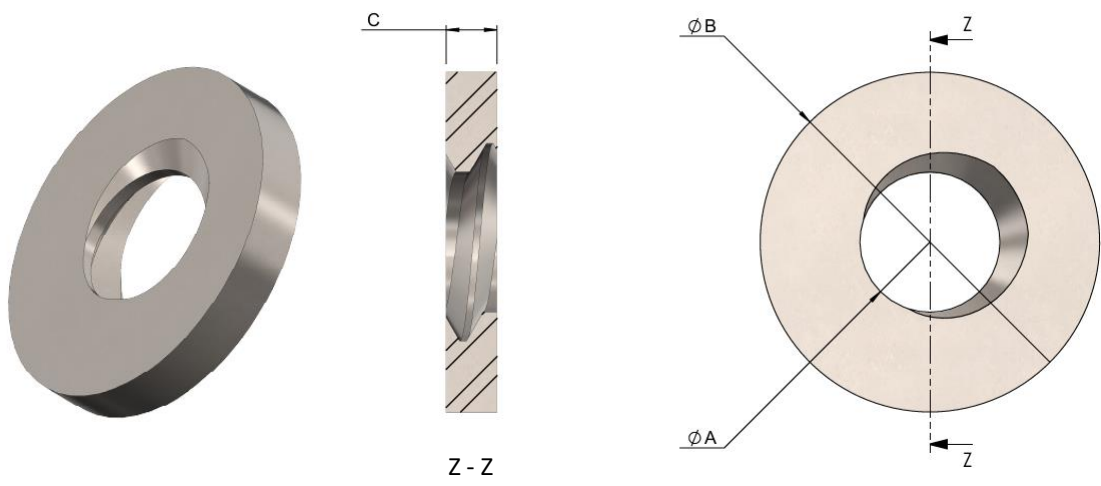


OPTION TO FIT INTO THROUGH HOLED PANEL USING THREADED WASHER
PART NUMBER [003-168-MX](#)

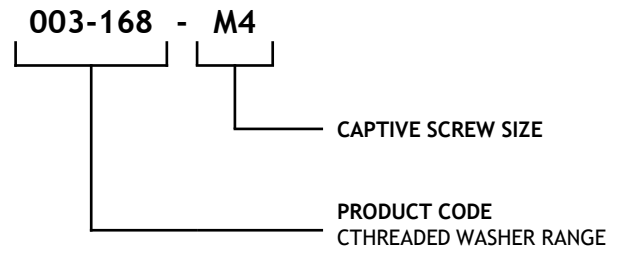


PART NUMBER	METRIC SERIES					
	'T' Thread	A	B	C	D	'E' Thread
561-M3-XX-XX	M3 X 0.5	5.5	3.0	2.5	2.0	M3 X 0.5
561-M4-XX-XX	M4 X 0.7	7.0	4.0	3.0	2.8	M4 X 0.7
561-M5-XX-XX	M5 X 0.8	8.5	5.0	4.0	3.7	M5 x 0.8
561-M6-XX-XX	M6 X 1.0	10.0	6.0	5.0	4.2	M6 X 1.0
561-M8-XX-XX	M8 X 1.25	13.0	8.0	6.0	6.0	M8 X 1.25
Head Dimensions to ISO 4762		All Dimensions in MM				






PART NUMBER CALL OUT

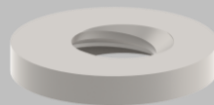


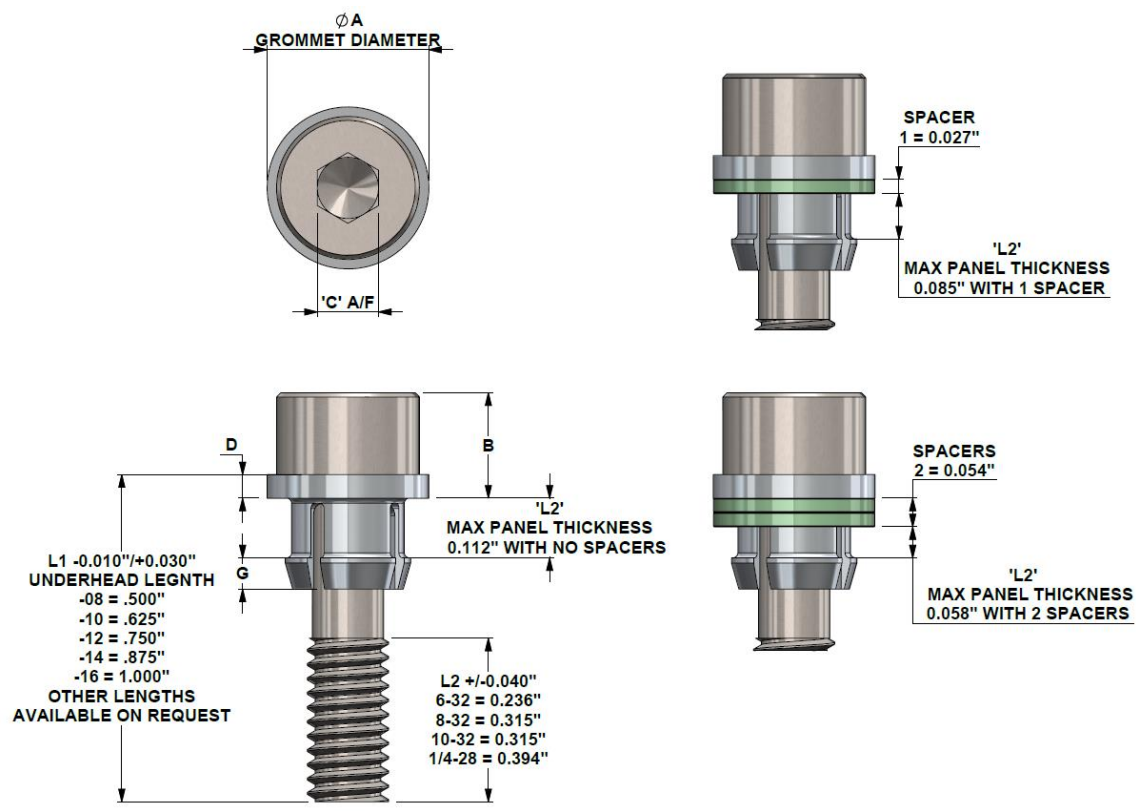
PART NUMBER EXAMPLE:
003-168-040 = THREADED WASHER FOR M4 REDUCED SHANK SCREW 541-MX

MATERIAL: 316 STAINLESS STEEL
FINISH: NATURAL

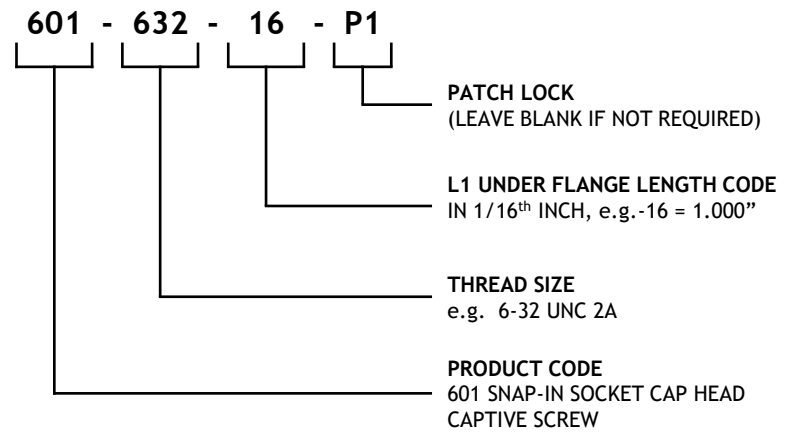
	METRIC SERIES			
	PART NUMBER	A	B	C
		Thread Size	Outer Diameter	Thickness
	003-168-M3	M3 X 0.65 - 6h	6.0	1.0
	003-168-M4	M4 X 0.7 - 6h	8.0	1.2
	003-168-M5	M5 X 0.8 - 6h	10.0	1.5
	003-168-M6	M6 X 1.0 - 6h	12.0	1.6
	003-168-M8	M8 X 1.25 - 6h	16.0	2.0
All Dimensions in MM				

003-168-MX THREADED WASHER FOR METRIC REDUCED SHANK SOCKET CAP HEAD CAPTIVE SCREW



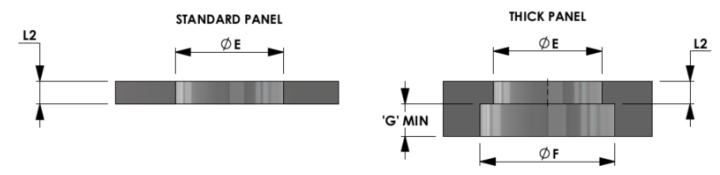


PART NUMBER CALL OUT



PART NUMBER EXAMPLE:
 601-632-16 P1 = 6-32 UNC SNAP-IN CAPTIVE SCREW, 1.000" LONG FROM UNDER THE SCREW HEAD, WITH PATCH LOCK APPLIED

MATERIAL: SCREW: 316 (A4-70) STAINLESS STEEL, GROMMET & SPACERS: ALUMINIUM WITH SURTEC COATING, RoHS AND REACH COMPLIANT



INCH SERIES									
Part Number	Min L1	Thread	A	B	C	D	PANEL PREP		G
							E	F	
		Class 2A	Grommet Diam	Head + Flange HT	DRIVE	Flange HT	Hole	C/Bore Min	Snap Legs
601-632-L1	0.500"	6-32 UNC	0.250"	0.171"	3/32	0.035"	0.190/0.198"	0.235"	0.060"
601-832-L1	0.625"	8-32 UNC	0.311"	0.207"	1/8	0.045"	0.217/0.225"	0.255"	
601-132-L1	0.625"	10-32 UNF	0.360"	0.248"	5/32	0.060"	0.249/0.256"	0.320"	
601-428-L1	0.750"	1/4-28 UNF	0.420"	0.308"	3/16	0.060"	0.312/0.319"	0.355"	
Head Dimensions to BS 2470			Rolled Thread to BS 1580			All Dimensions in Inches			

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PART NUMBER CALL OUT

602 - 632 - 16 - P1

PATCH LOCK
(LEAVE BLANK IF NOT REQUIRED)

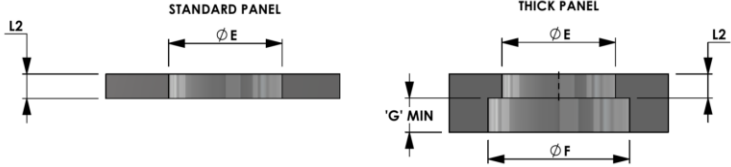
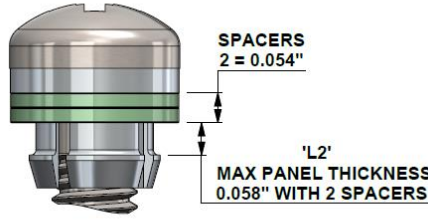
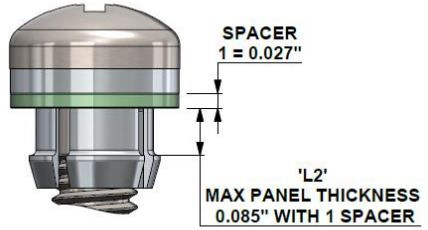
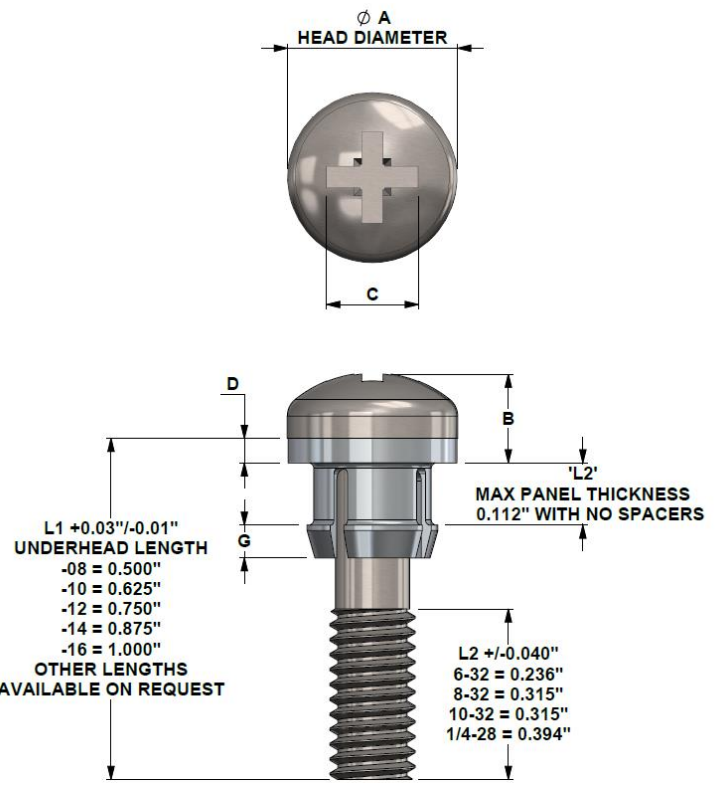
L1 UNDER FLANGE LENGTH CODE
IN 1/16th INCH, e.g.-16 = 1.000"

THREAD SIZE
e.g. 6-32 UNC 2A

PRODUCT CODE
602 CROSS RECESS HEAD SNAP-IN CAPTIVE SCREW

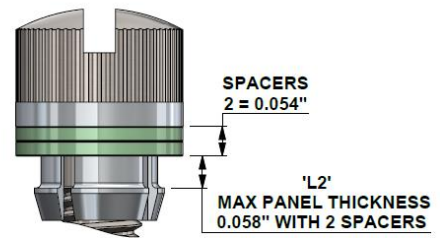
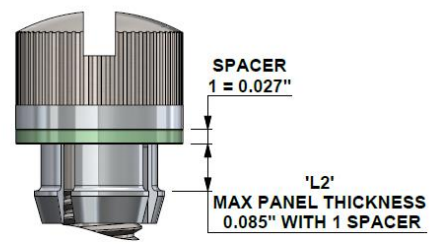
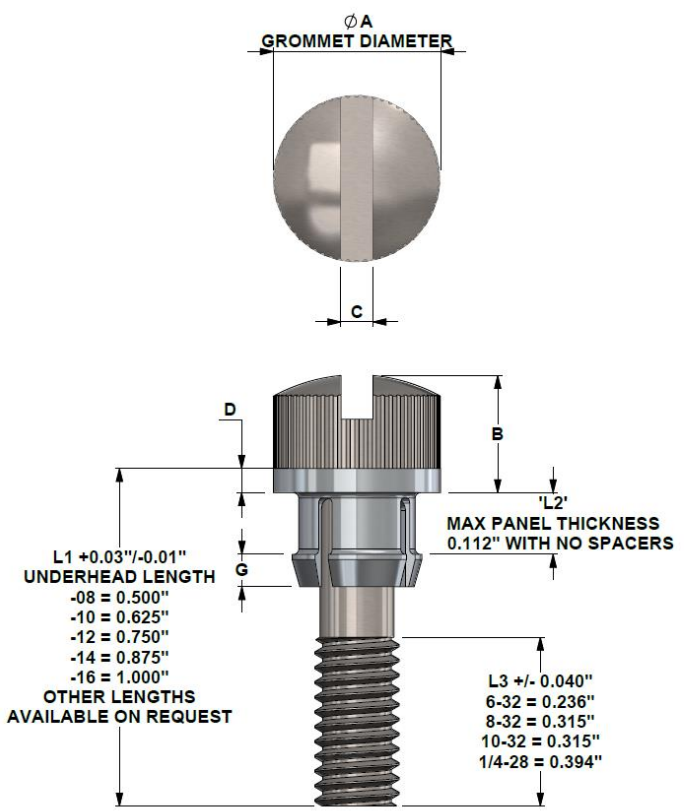
PART NUMBER EXAMPLE:
602-632-16 P1 = 6-32 UNC SNAP-IN CAPTIVE SCREW, 1.000" LONG FROM UNDER THE SCREW HEAD, WITH PATCH LOCK APPLIED

MATERIAL: SCREW: 316 (A4-70) STAINLESS STEEL, GROMMET & SPACERS: ALUMINIUM WITH SURTEC COATING, RoHS AND REACH COMPLIANT



INCH SERIES										
Part Number	Min L1	Thread	A	B	C	D	PANEL PREP		G	
							E	F		
		Class 2A	Head Diam	Head + Flange HT	Drive size	Flange HT	Hole	C/Bore Min	Snap Legs	
602-632-L1	0.500"	6-32 UNC	0.270"	0.130"	2	0.035"	0.190/0.198"	0.235"	0.060"	
602-832-L1	0.625"	8-32 UNC	0.322"	0.158"	2	0.045"	0.217/0.225"	0.255"		
602-132-L1	0.625"	10-32 UNF	0.373"	0.191"	2	0.060"	0.249/0.256"	0.320"		
602-428-L1	0.750"	1/4-28 UNF	0.492"	0.233"	3	0.060"	0.312/0.319"	0.355"		
Head Dimensions to BS 1981 Type Z			Rolled Thread to BS 1580				All Dimensions in Inches			

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PART NUMBER CALL OUT

603 - 632 - 16 - P1

PATCH LOCK
(LEAVE BLANK IF NOT REQUIRED)

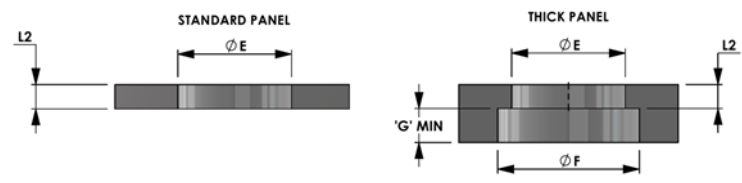
L1 UNDER FLANGE LENGTH CODE
IN 1/16th INCH, e.g. -16 = 1.000"

THREAD SIZE
e.g. 6-32 UNC 2A

PRODUCT CODE
603 FILLISTER HEAD SNAP-IN
CAPTIVE SCREW

PART NUMBER EXAMPLE:
603-632-16 P1 = 6-32 UNC SNAP-IN CAPTIVE SCREW, 1.000" LONG
FROM UNDER THE SCREW HEAD, WITH PATCH LOCK APPLIED

MATERIAL: SCREW -316 (A4-70) STAINLESS STEEL, GROMMET & SPACERS -
ALUMINIUM WITH SURTEC COATING, RoHS AND REACH COMPLIANT



INCH SERIES									
Part Number	Min L1	Thread	A	B	C	D	PANEL PREP		G
							E	F	
		Class 2A	Grommet Diam	Head + Flange HT	Slot max	Flange HT	Hole	C/Bore Min	Snap legs
603-632-L1	0.500"	6-32 UNC	0.250"	0.167"	0.048"	0.035"	0.190/0.198"	0.235"	0.060"
603-832-L1	0.625"	8-32 UNC	0.311"	0.201"	0.054"	0.045"	0.217/0.225"	0.255"	
603-132-L1	0.625"	10-32 UNF	0.360"	0.240"	0.060"	0.060"	0.249/0.256"	0.320"	
603-428-L1	0.750"	1/4-28 UNF	0.420"	0.297"	0.075"	0.060"	0.312/0.319"	0.355"	

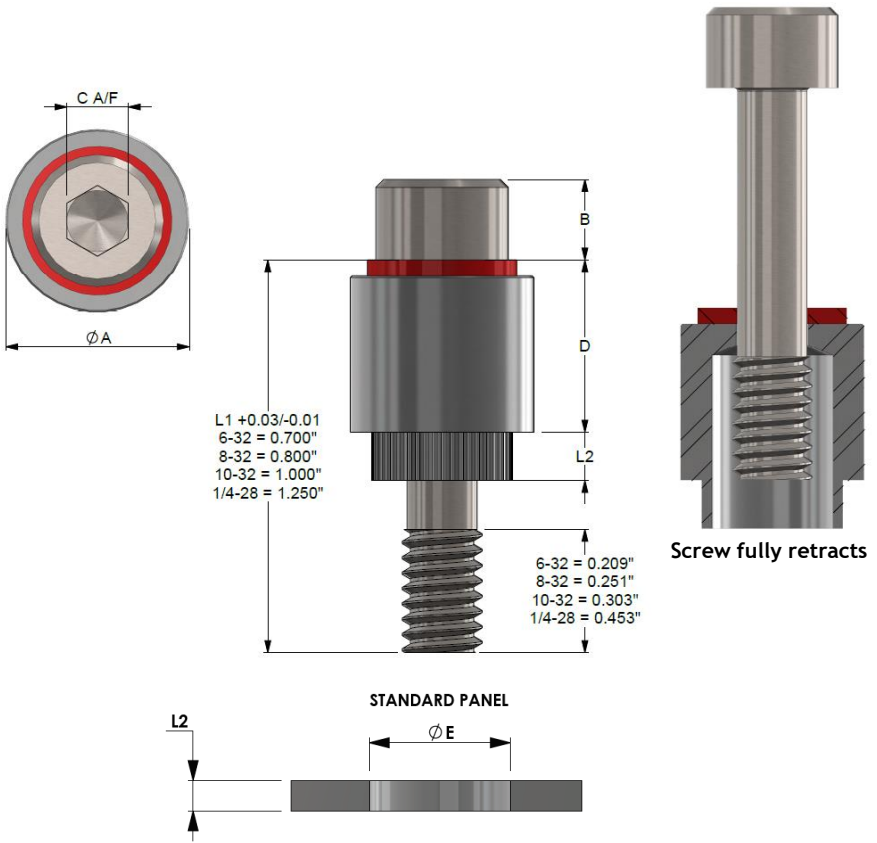
Head Dimensions to ASME B18.6.3 Knurled

Rolled Thread to BS 1580

All Dimensions in Inches

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PART NUMBER CALL OUT

621 - 632 - 700 - 39 P1

PATCH LOCK
 (LEAVE BLANK IF NOT REQUIRED)

L2 FOR PANEL THICKNESS IN 1/1000th INCH
 THK AVAIL.: 0.039", 0.059", 0.079", 0.098", 0.118"
 E.G. -39 = 0.039 INCH

L1 UNDER HEAD LENGTH IN 1/1000th INCH
 E.G. 700 = 0.700 INCH

THREAD SIZE
 E.G. 632 = 6-32 UNC 2A

PRODUCT CODE
 621 SOCKET CAP HEAD, SWAGED GROMMET CAPTIVE SCREW

PART NUMBER EXAMPLE:
 621-132-1000-59 = SWAGED GROMMET, 10-32 UNF x 1.000" FOR 0.059" THICK PANEL, NO PATCH LOCK

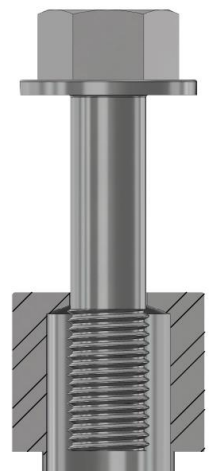
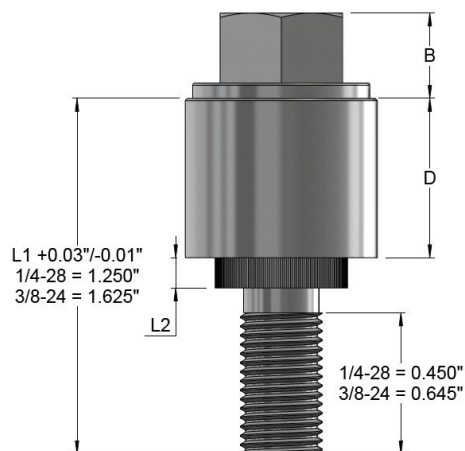
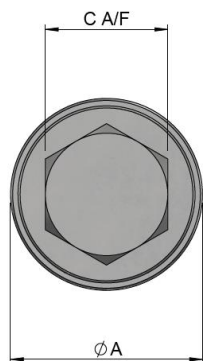
MATERIAL: 316 (A4-70) STAINLESS STEEL
FINISH: NATURAL
RoHS AND REACH COMPLIANT



INCH SERIES						
PART NUMBER	Thread	A	B	C	D	E
	Class 2A	O/D	Head Height	A/F Recess	Housing + Washer HT	Panel Prep Hole Dia
621-632-700-XX	6-32 UNC	0.295	0.138	3/32	0.280	0.256
621-832-800-XX	8-32 UNC	0.374	0.164	1/8	0.351	0.276
621-132-1000-XX	10-32 UNF	0.413	0.190	5/32	0.484	0.335
621-428-1250-XX	1/4-28 UNF	0.571	0.250	3/16	0.575	0.374
Head Dimensions to BS 2470		Rolled thread to BS 1580			All dimensions in Inches	

621 INCH SWAGED SOCKET CAP HEAD CAPTIVE SCREW

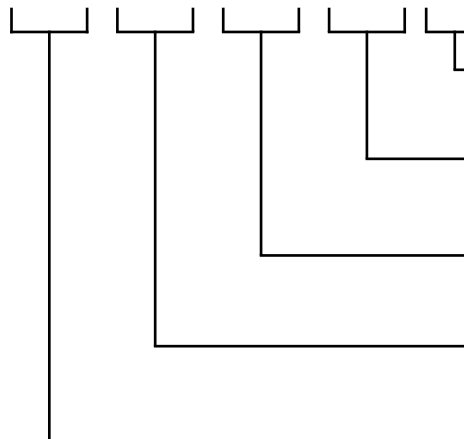




SCREW FULLY RETRACTS

PART NUMBER CALL OUT

622 - 624 - 26 - 39 P1



PATCH LOCK
(LEAVE BLANK IF NOT REQUIRED)

L2 FOR PANEL THICKNESS IN 1/1000th INCH
THK AVAIL.: 0.039", 0.059", 0.079", 0.098", 0.118"
E.G. -39 = 0.039 INCH

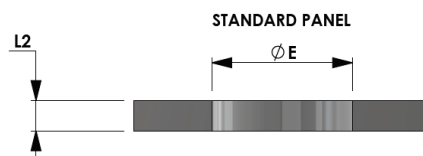
L1 UNDER HEAD LENGTH IN 1/16th INCH
E.G 26 = 1.625 INCH

THREAD SIZE
E.G. 624 = 3/8-24 UNF 2A

PRODUCT CODE
622 HEX FLANGE HEAD, SWAGED GROMMET CAPTIVE SCREW

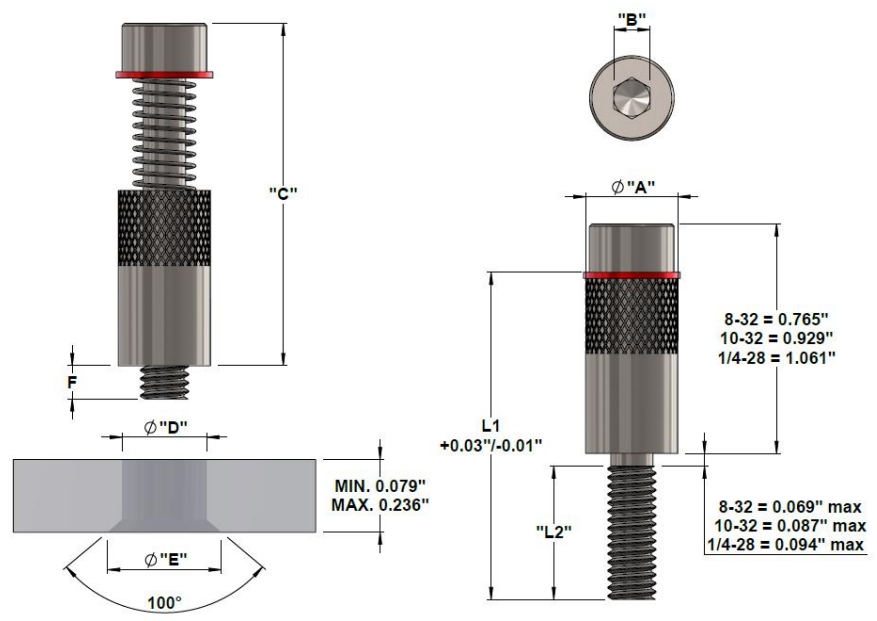
PART NUMBER EXAMPLE:
622-428-20-59 = SWAGED GROMMET, 1/4-28 UNF x 1.250" FOR 0.059" THICK PANEL, NO PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL
FINISH: NATURAL
RoHS AND REACH COMPLIANT



INCH SERIES						
PART NUMBER	Thread	A	B	C	D	E
	Class 2A	O/D	Head Height	A/F	Housing Height	Panel Prep Hole Diam
622-428-20-XX	1/4-28 UNF	0.571	0.28	3/8	0.512	0.374
622-624-26-XX	3/8-24 UNF	0.878	0.395	9/16	0.728	0.608
Rolled thread to BS 1580				All dimensions in Inches		





PART NUMBER CALL OUT

641 - 832 - 16 - 1

FINISH
NO SUFFIX = NATURAL
1 = PASSIVATED
2 = STAYBLACK

L1 UNDER HEAD LENGTH IN 1/16TH INCH

THREAD SIZE
E.G. 8-32 UNC

PRODUCT CODE
641 SOCKET CAP HEAD, RETAINER NUT
GROMMET CAPTIVE SCREW, SPRING EJECT

PART NUMBER EXAMPLE:
641-832-16-1 = RETAINER NUT GROMMET, 8-32 x 1.000" , PASSIVATED

MATERIAL: 316 (A4-70) STAINLESS STEEL , **SPRING :** 300 SERIES
FINISH: SEE PART NUMBER CALL OUT
RoHS AND REACH COMPLIANT

RETAINER NUT SOLD SEPARATELY
SEE PAGE [003-1019](#)



INCH SERIES									
PART NUMBER	Thread	A	B	C	PANEL PREP		F	L1	L2
					D	E			
	Class 2A	Grommet Diameter	A/F Recess	Above panel Retracted (REF ONLY)	Hole	C/Sink Diameter	Max Protrusion	Under Head Length	Min. Thread Length
641-832-16	8-32 UNC	0.300	0.125	1.137	0.250	0.402	0.070	1.000	0.330
641-832-17	8-32 UNC	0.300	0.125	1.137	0.250	0.402	0.150	1.063	0.393
641-132-19	10-32 UNF	0.394	0.156	1.396	0.335	0.477	None	1.188	0.363
641-132-21	10-32 UNF	0.394	0.156	1.396	0.335	0.477	0.120	1.313	0.488
641-428-22	1/4-28 UNF	0.472	0.188	1.576	0.413	0.579	0.075	1.375	0.470
641-428-23	1/4-28 UNF	0.472	0.188	1.576	0.413	0.579	0.150	1.438	0.533

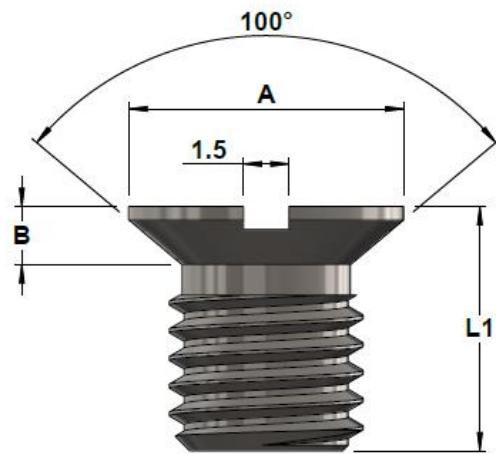
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Head Dimensions to BS 2470

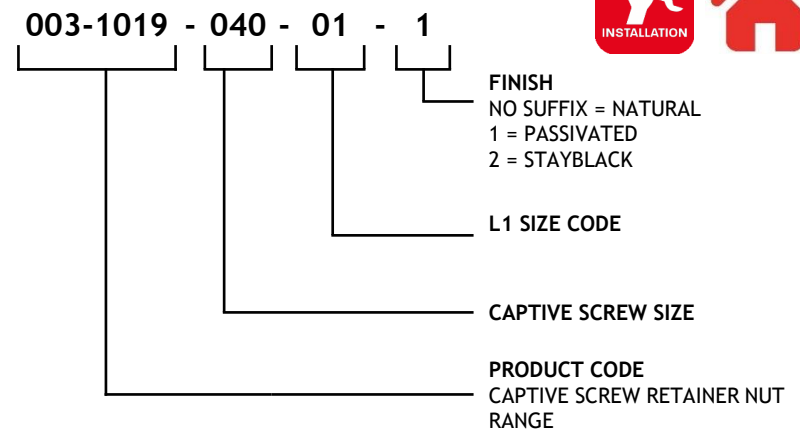
Rollled Thread to BS 1580

All Dimensions in Inches






PART NUMBER CALL OUT



PART NUMBER EXAMPLE:
003-1019-040-01-1 = RETAINER NUT, FOR M4 CAPTIVE SCREW FOR 2-3 MM THICK PANEL, PASSIVATED

MATERIAL: 316 STAINLESS STEEL
FINISH: SEE PART NUMBER CALL OUT
RoHS AND REACH COMPLIANT



	METRIC / INCH SERIES					
	For Captive Screw	Retainer Nut Part No.	Panel Thickness	L1	A	B
				Retainer Nut Length	Head Diameter	Head Height
	541-M4-XX and 641-832-XX	003-1019-040-01	2.0 - 3.0	8.0	9.0	1.9
		003-1019-040-02	3.1 - 4.9	9.5		
		003-1019-040-03	5.0 - 6.0	11.0		
	541-M5-XX and 641-132-XX	003-1019-050-01	2.0 - 3.0	8.0	11.0	2.4
		003-1019-050-02	3.1 - 4.9	9.5		
		003-1019-050-03	5.0 - 6.0	11.0		
	541-M6-XX and 641-128-XX	003-1019-060-01	2.0 - 3.0	8.0	13.5	2.8
		003-1019-060-02	3.1 - 4.9	9.5		
		003-1019-060-03	5.0 - 6.0	11.0		

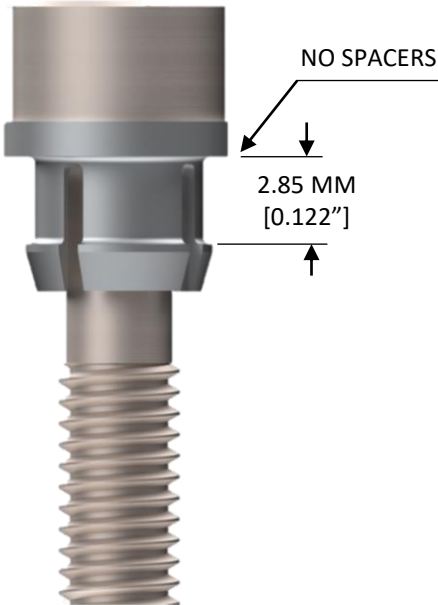
All Dimensions in MM

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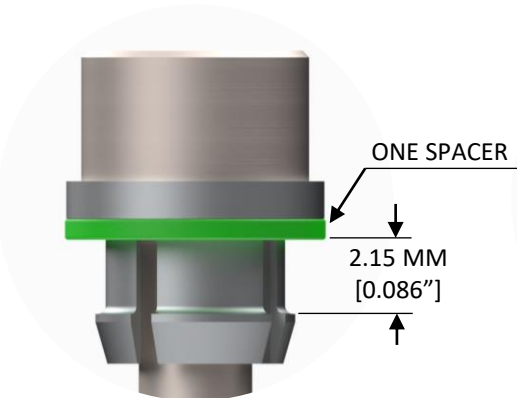


FOR PANEL THICKNESS
2.5 MM (12 SWG)

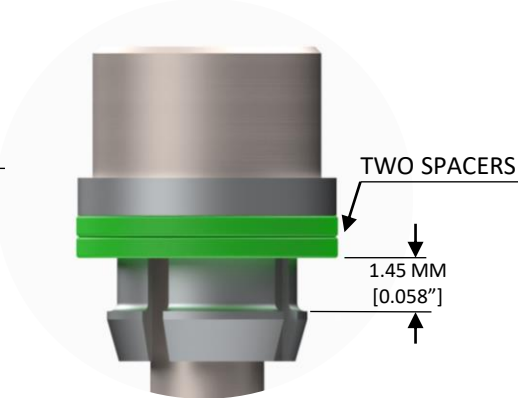


SPACERS CAN BE FITTED UNDER THE GROMMET FLANGE PRIOR TO FITTING THE CAPTIVE SCREW TO THE PANEL

FOR PANEL THICKNESS
1.5 / 1.6 / 1.8 / 2.0 MM (16-14 SWG)

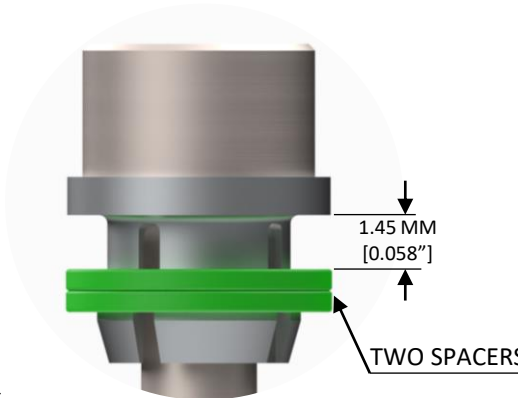
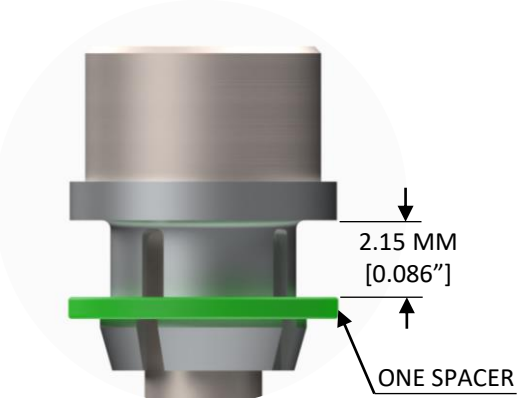


FOR PANEL THICKNESS
1.0 / 1.2 MM (19-18 SWG)



OR

UNDER THE PANEL ON THE SNAP LEGS AFTER FITTING THE CAPTIVE SCREW TO THE PANEL

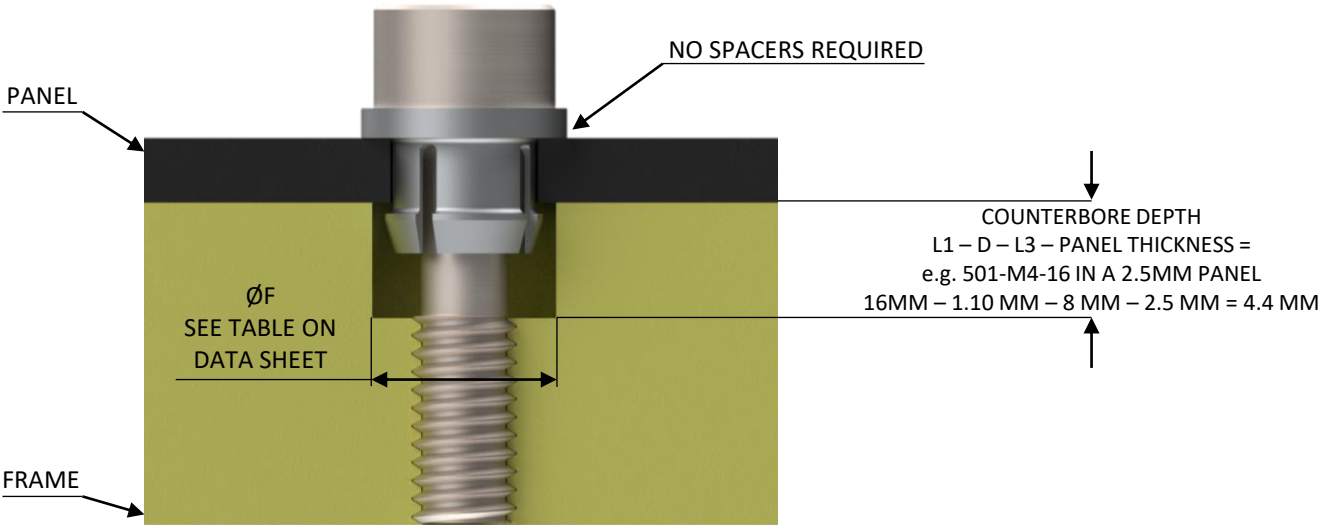


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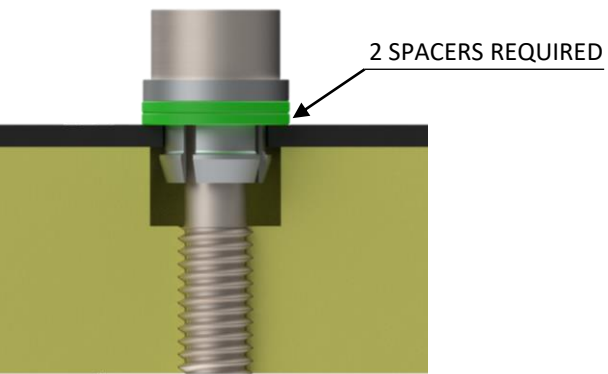




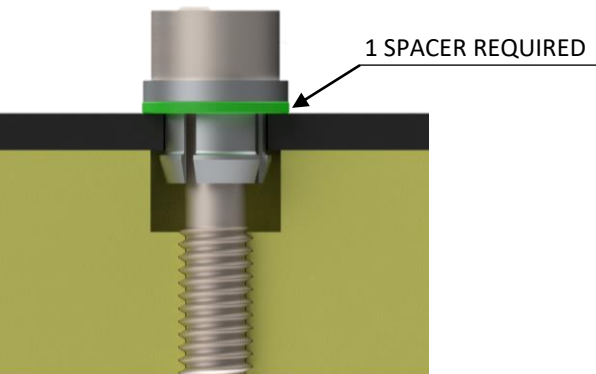
INSTALLATION FOR 2.5MM PANEL



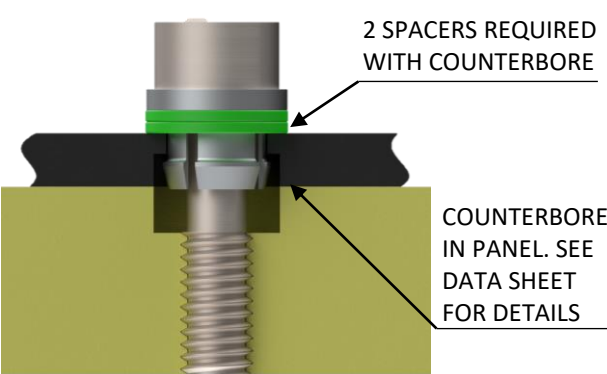
INSTALLATION FOR 1.0 / 1.2 MM PANEL



INSTALLATION FOR 1.5 / 1.6 / 2.0 MM PANEL



INSTALLATION FOR ≥ 2.6 MM PANEL



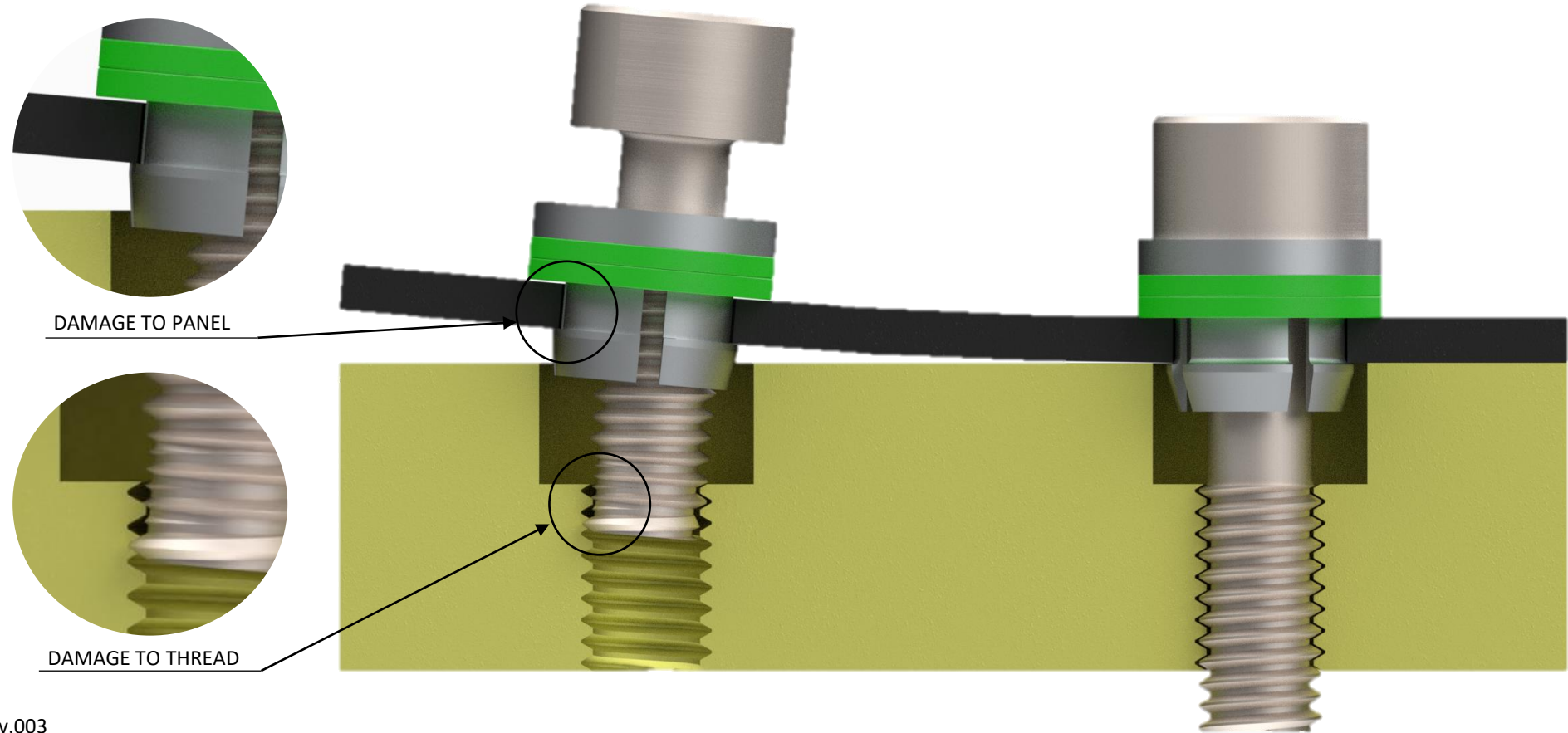
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JACK-OUT DAMAGE

DESTRUCTIVE JACK-OUT FORCES MAY BE ENCOUNTERED WHEN REMOVING A PANEL WHICH USES A NUMBER OF CAPTIVE SCREWS.
THIS OCCURS WHEN A SCREW REACHES THE LIMIT OF THE RETRACTION PERMITTED BY THE HOUSING BEFORE THE THREADS ARE FULLY DISENGAGED FROM THE MATING THREADS OF THE FRAME.
REMEMBER TO REMOVE THEM GRADUALLY!



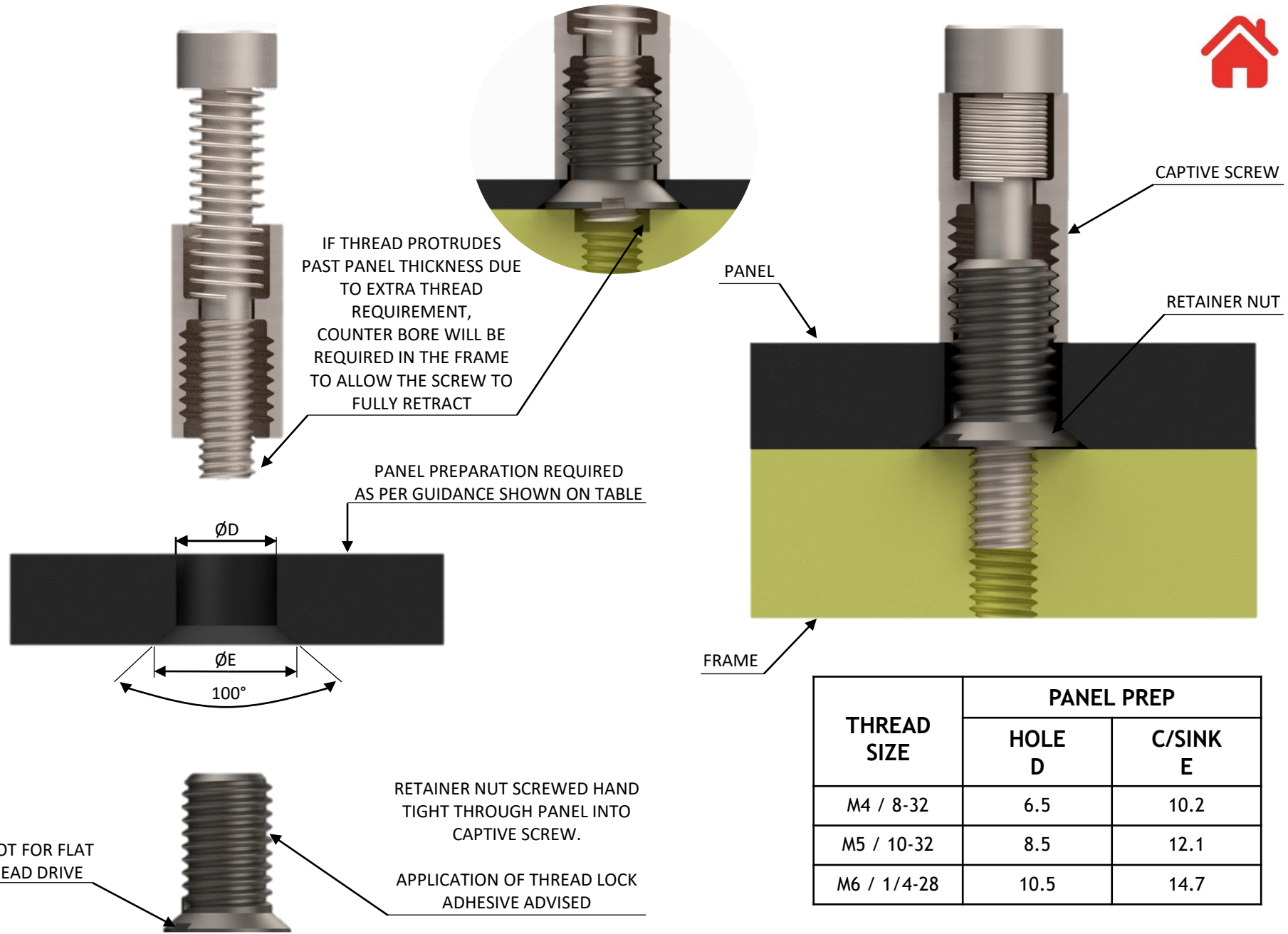
SNAP-IN CAPTIVE
SCREW INSTALLATION

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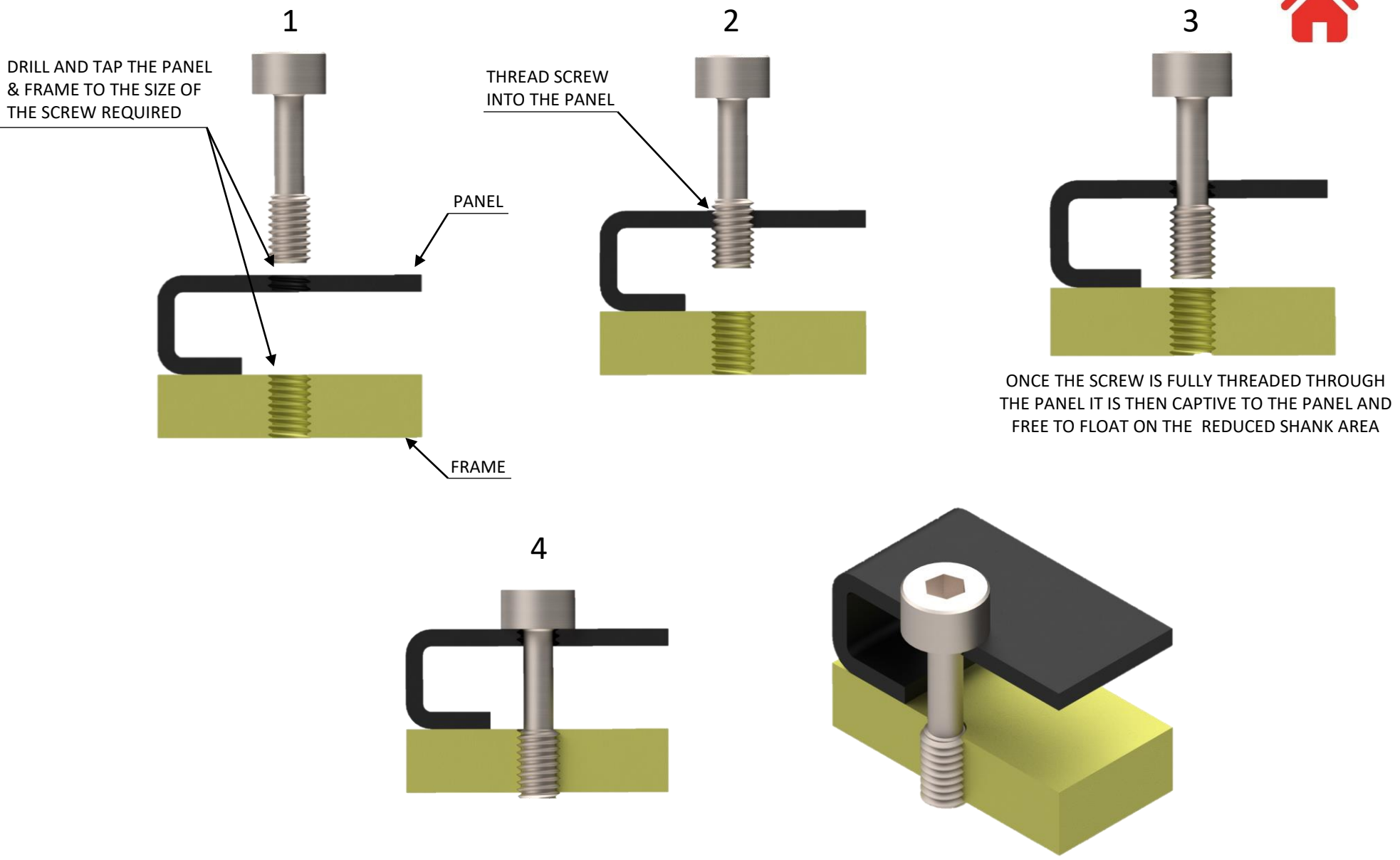




RETAINER NUT CAPTIVE
SCREW INSTALLATION

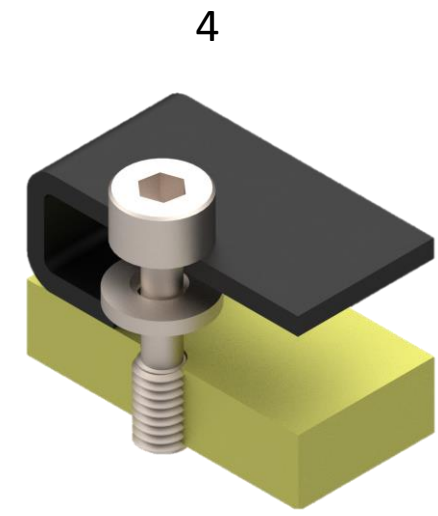
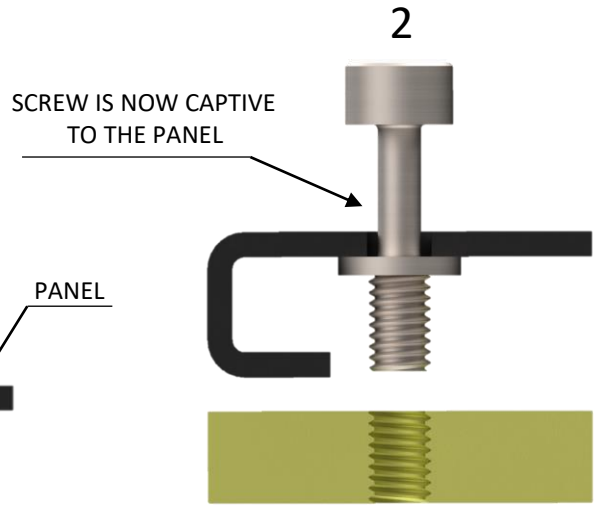
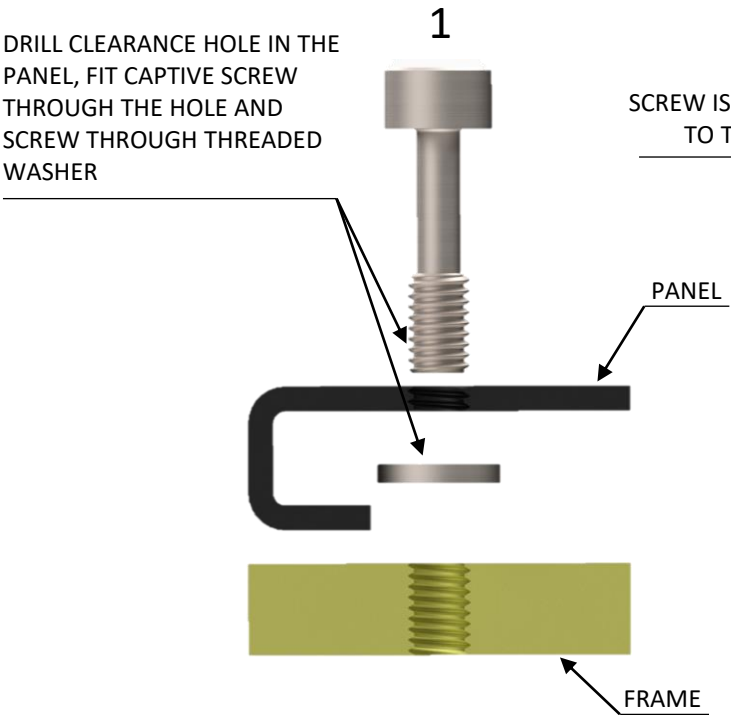


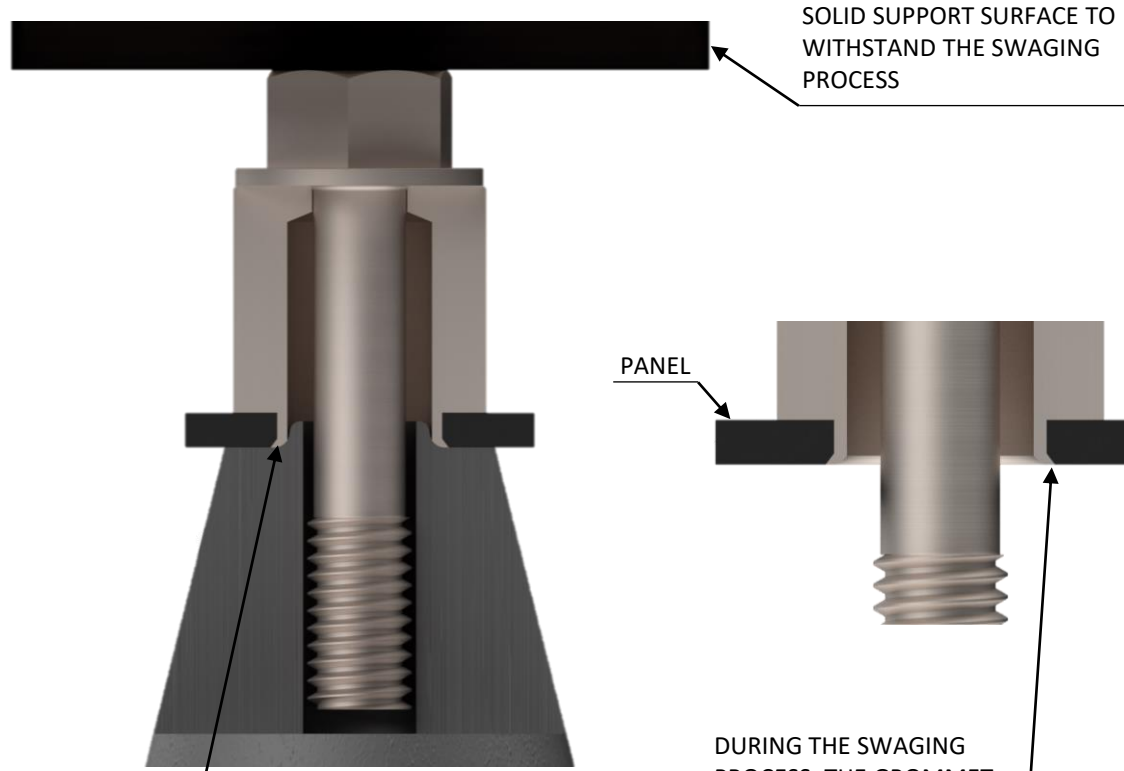
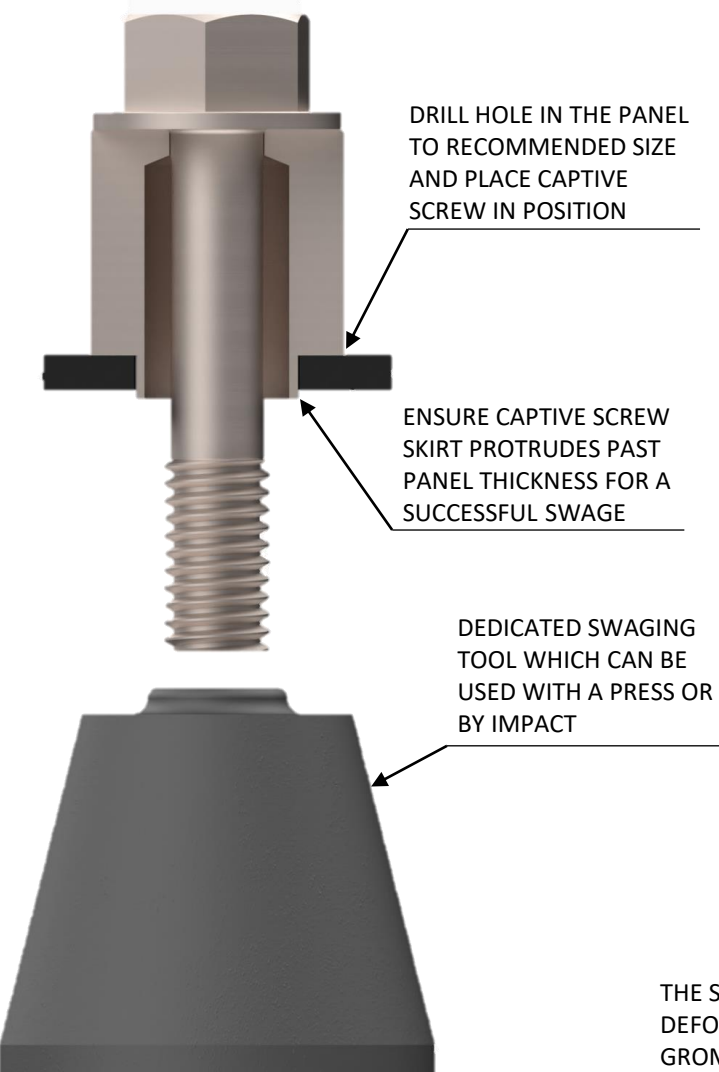
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PANEL TO FRAME JOINT CAN NOW BE OPENED OR CLOSED AS REQUIRED





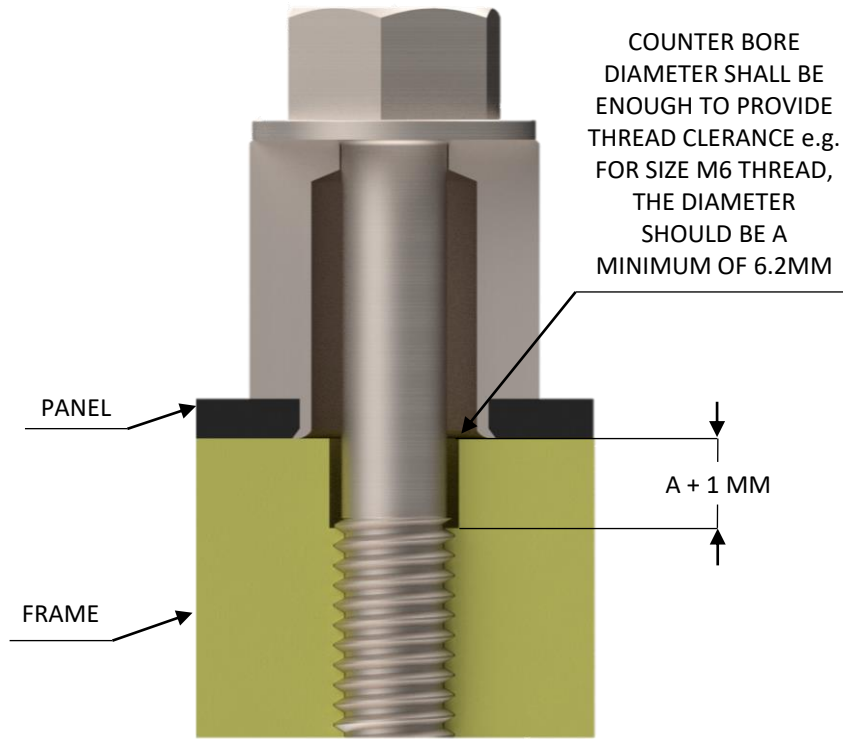
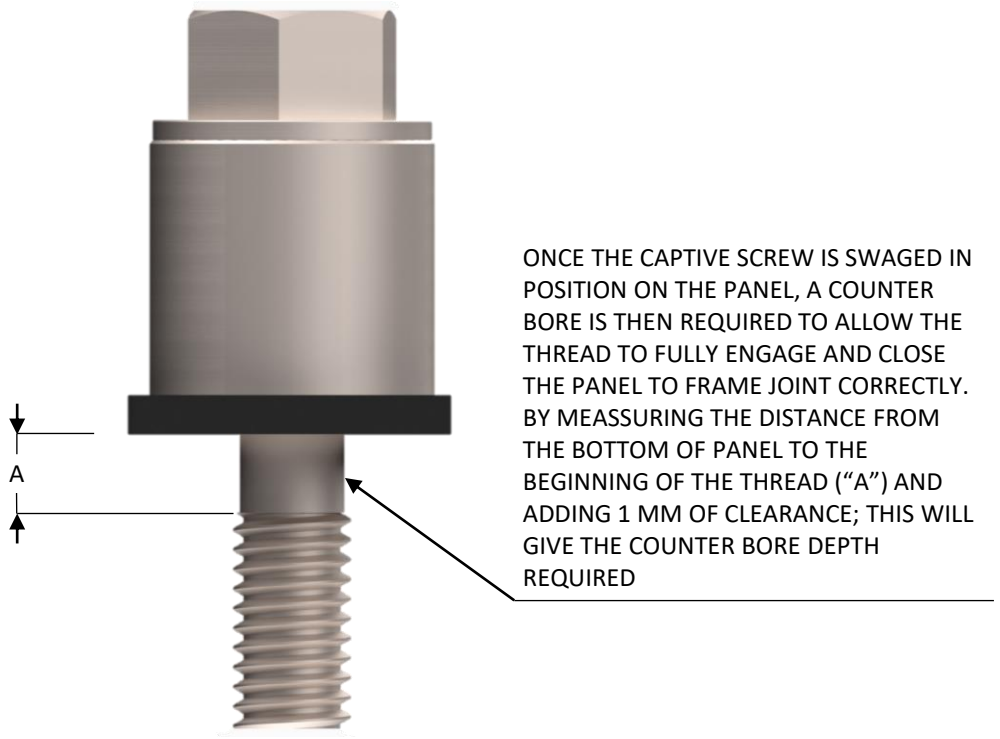
THE SWAGING TOOL DEFORMS THE SCREWS GROMMET, CAPTIVATING IT TO THE PANEL

DURING THE SWAGING PROCESS, THE GROMMET SKIRT IS PRESSED INTO THE PANEL MATERIAL LEAVING A FLUSH FINISH

SWAGED CAPTIVE SCREW
INSTALLATION DETAILS

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