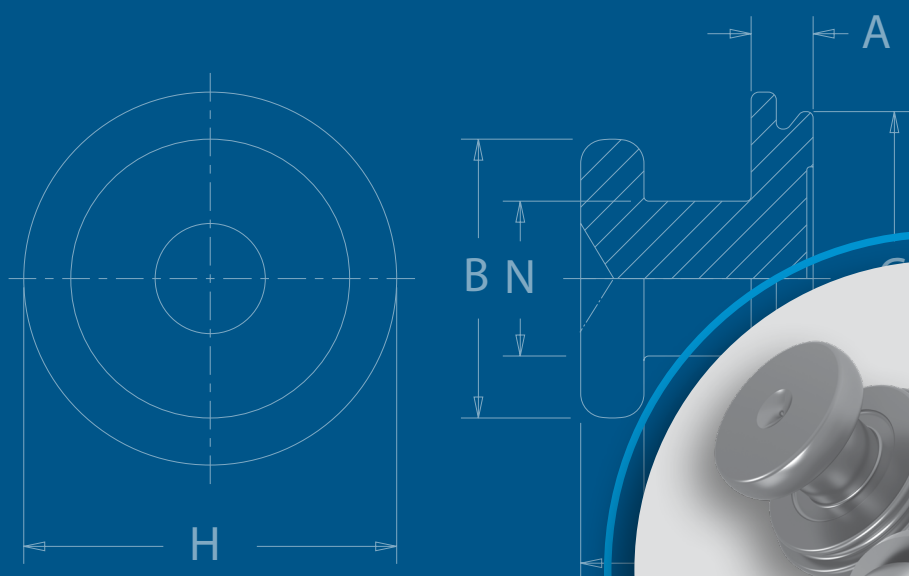




SK™

SELF-CLINCHING KEYHOLE® FASTENERS



PEM® KEYHOLE® fasteners are designed for quick panel attachment and reduction of loose hardware.

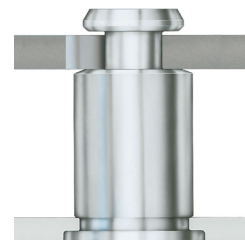


PEM® KEYHOLE® Standoffs and sheet joining fasteners are designed so that a PC board or panel can be quickly slipped into place and then removed from an assembly by simply sliding the board sideways and lifting it off. These standoffs and fasteners can save valuable time and dramatically reduce the amount of loose hardware required.

SKC™/SK4™/SKCF™/SK4F™/SKSF™/HSKCF™/TSKSF™ standoffs can be used for spacing or mounting of replaceable components. Typically, several standoffs are used with one standard PEM® threaded standoff which accepts a screw to secure the board or component against any unwanted movement.

- Allow detachable spacing of two sheets
- Clinch feature mounts fastener permanently and flush into metal sheet
- Unique barrel design allows for quick attachment and detachment
- Makes horizontal or vertical component mounting possible
- SK4™ and SK4F™ standoffs are available for installation into stainless steel sheets

Custom sizes are available on special order. [Contact us](#) for more information.



Drawings and models
are available at
www.pemnet.com

SKC-F™/SK4-F™/SKS-R™/HSKC-R™/HSK4-R™/HSKS-R™/TSKC-R™/TSK4-R™/TSKS-R™/HHSKS-R™/DSKS-R™ fasteners are designed so that two sheets can be quickly joined flat against each other. Typically, several fasteners are used with one standard PEM® threaded F™ flush nut ([PEM® Bulletin F](#)) which accepts a screw to secure the sheets against any unwanted movement.

- Allow detachable spacing of two sheets
- Clinch feature mounts fastener permanently and flush or sub-flush into metal sheet
- Unique barrel design allows for quick "panel-on-panel" attachment and detachment
- Can be clinched into blind hole where concealed head is required
- Makes horizontal or vertical component mounting possible
- SK4-R™, HSK4-R™, TSK4-R™, SK4-F™, SK4F-F™ and TSK4F-F™ fasteners are available for installation into stainless steel sheets
- SKS-R™, SKC-R™, SK4-R™, TSKS-R™, HSKS-R™, TSKC-R™, TSK4-R™, HSKC-R™, HSK4-R™ and DSKS-R™ fasteners are designed to provide high side-load in vertical component mounting applications and are available for various top sheet thicknesses and hole sizes



SKC-F™/SK4-F™ Fasteners



SKS-R™/HSKC-R™/HSK4-R™/
HSKS-R™/TSKC-R™/TSK4-R™/
TSKS-R™/DSKS-R™ Fasteners



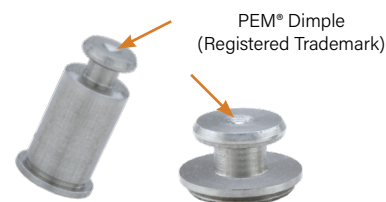
HHSKS-R™ Fasteners



SKC™/SK4™/SKCF™/SK4F™/
SKSF™/HSKCF™/TSKSF™
standoffs

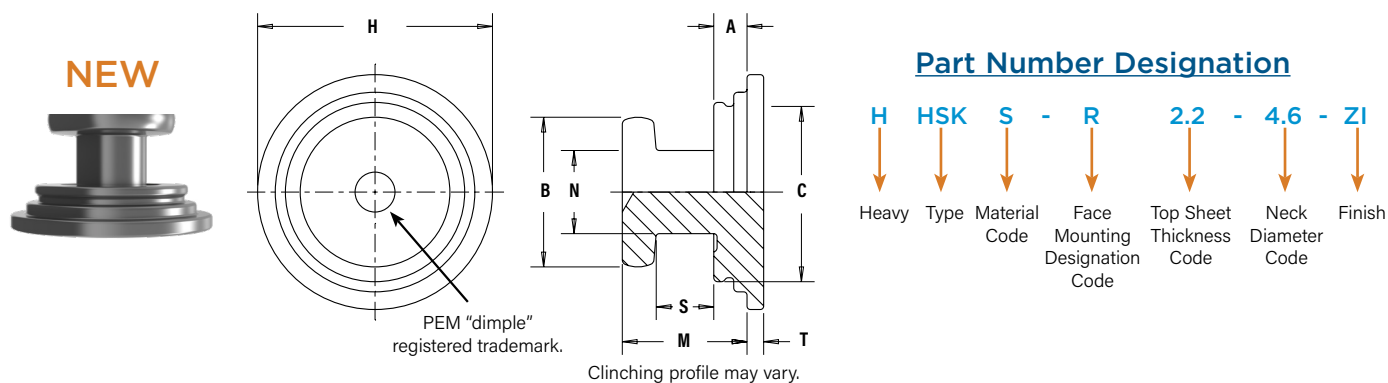


SKC-F™/SK4-F™/SKS-R™/HSKC-R™/
HSK4-R™/HSKS-R™/TSKC-R™/
TSK4-R™/TSKS-R™/HHSKS-R™/
DSKS-R™ fasteners



Custom sizes are available on
special order. [Contact us](#) for
more information.

HHSKS-R™ Heavy-Head Fastener Dimensional Data



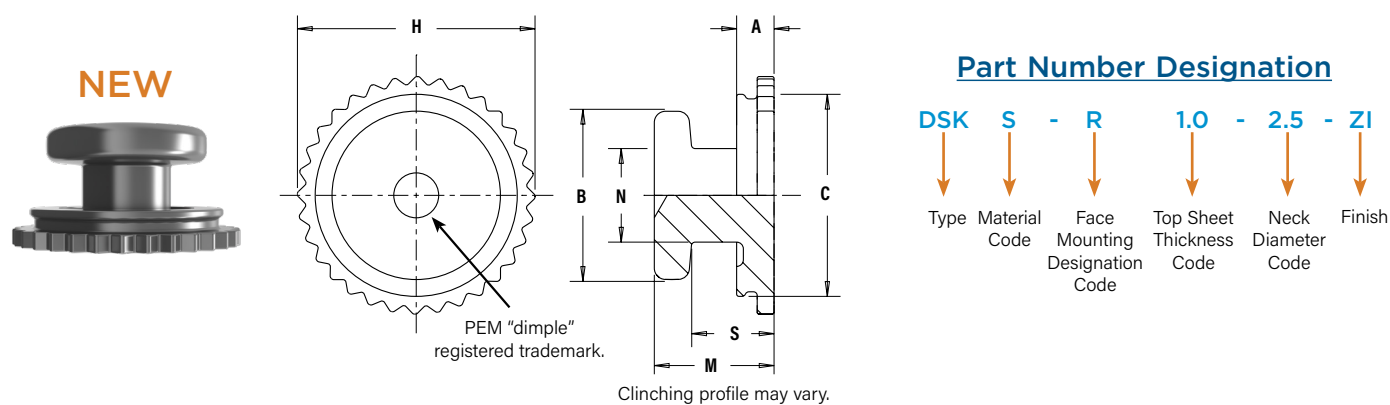
All dimensions are in inches.

Unified	Type	Face Mounting Designation Code	Top Sheet Thickness Code	Neck Diameter Code	A (Shank) Max.	B $\pm .003$	C Max.	H $\pm .010$	M Max.	N $\pm .003$	S $\pm .003$	T $\pm .005$
	Hardened Steel											
	HHSKS	R	2.2	4.6	.047	.354	.394	.492	.236	.181	.098	.049
	HHSKS	R	2.5	4.6	.079	.354	.394	.492	.280	.181	.110	.049

All dimensions are in millimeters.

Metric	Type	Face Mounting Designation Code	Top Sheet Thickness Code	Neck Diameter Code	A (Shank) Max.	B ± 0.08	C Max.	H ± 0.25	M Max.	N ± 0.08	S ± 0.08	T ± 0.13
	Hardened Steel											
	HHSKS	R	2.2	4.6	1.2	9	10	12.5	6	4.6	2.5	1.25
	HHSKS	R	2.5	4.6	2	9	10	12.5	7.1	4.6	2.8	1.25

DSKS-R™ Fastener Dimensional Data



All dimensions are in inches.

Unified	Type	Face Mounting Designation Code	Top Sheet Thickness Code	Neck Diameter Code	A (Shank) Max.	B $\pm .003$	C Max.	H Nom.	M Max.	N $\pm .003$	S $\pm .003$
	Hardened Steel										
	DSKS	R	1.0	2.5	.039	.177	.213	.250	.130	.098	.087

All dimensions are in millimeters.

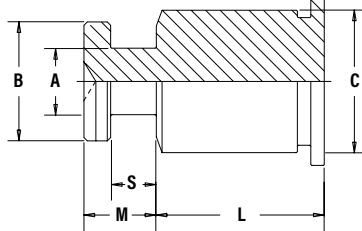
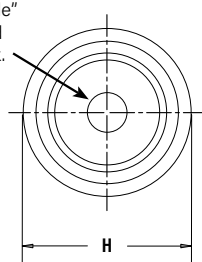
Metric	Type	Face Mounting Designation Code	Top Sheet Thickness Code	Neck Diameter Code	A (Shank) Max.	B ± 0.08	C Max.	H Nom.	M Max.	N ± 0.08	S ± 0.08
	Hardened Steel										
	DSKS	R	1.0	2.5	1	4.5	5.4	6.35	3.3	2.5	2.2

HSKCF™ and TSKSF™ Standoff Dimensional Data

NEW



PEM "dimple" registered trademark.



Clinching profile may vary.

HSKCF for 1.5mm min. thick panels
TSKSF for 0.8mm min. thick panels

Part Number Designation

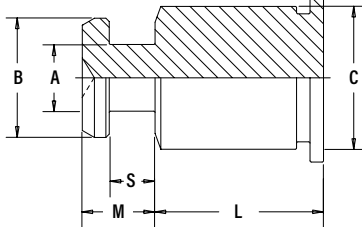
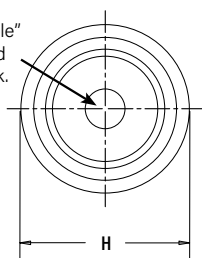
HSK TSK	C S	F - 71.5 - 6 F - 61.5 - 5	-	6 5	-	ZI
Type	Material Code	Manu- facturing Code	Body Size Code	Length Code	Finish	

Type		Body Size Sheet Code	Length "L" ±0.13 (Length code in millimeters)	A ±.003 / ±0.08		B ±.003 / ±0.08		C Max.		H Nom.		M Max.		S ±.003 / ±0.08	
300 Series Stainless Steel	Hardened Steel														
HSKCF	—	71.5	6	.010	2.51	.167	4.25	.250	6.34	.285	7.25	.155	3.93	.075	1.9
—	TSKSF	61.5	5	.010	2.51	.177	4.5	.212	5.39	.250	6.35	.120	3.05	.071	1.8

SKC™/SK4™ Standoff Dimensional Data



PEM "dimple" registered trademark.



Clinching profile may vary.

Part Number Designation

SK SK	C 4	- 6 - 6	060 - 12 060 - 12	- 12 - 12
Type	Material Code	Body Size Code	Sheet Thickness Code	Length Code

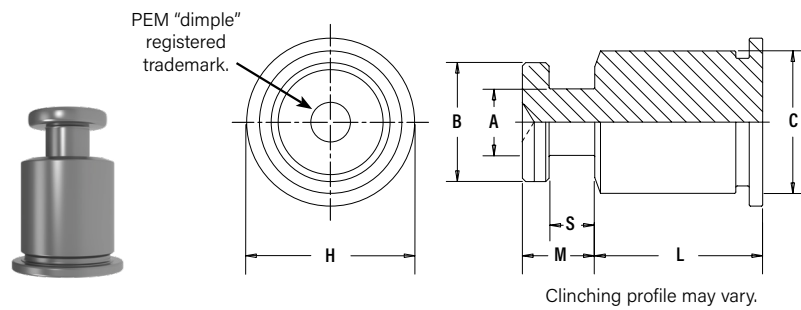
All dimensions are in inches.

Unified	Type		Body Size - Sheet Code	Length "L" ± .005 (Length Code in 32nds of an inch)												A ± .003	B ± .003	C Max.	S ± .003	M Max.	H Nom.
	300 Series Stainless Steel	400 Series Stainless Steel		.063	.125	.188	.250	.312	.375	.437	.500	.562	.625	.750	.875						
	SKC	SK4	6060	2	4	6	8	10	12	14	16	18	20	24	28	32	.099	.177	.212	.068	.108

All dimensions are in millimeters.

Metric	Type		Body Size - Sheet Code	Length "L" ±0.13 (Length Code in millimeters)												A ± 0.08	B ± 0.08	C Max.	S ± 0.08	M Max.	H Nom.
	300 Series Stainless Steel (1)	400 Series Stainless Steel (2)																			
	SKC	SK4	61.5	2	4	6	8	10	12	14	16	18	20	22	25	2.51	4.5	5.39	1.73	2.75	6.35

SKCF™/SK4F™/SKSF™ Standoff Dimensional Data



Part Number Designation

SK	C	F	-	6	060	-	8	
SK	4	F	-	6	060	-	8	
SK	S	F	-	6	060	-	8	ZI
↓	↓	↓		↓	↓		↓	↓
Type	Material Code	Manu- facturing Code		Body Size Code	Sheet Thickness Code		Length Code	Finish

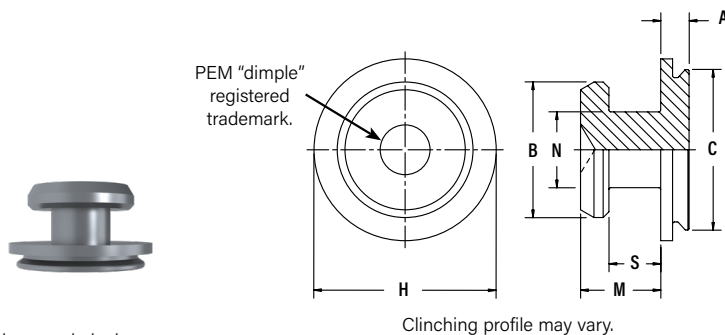
All dimensions are in inches.

Unified	Type			Body Size Sheet Code	Length "L" ±.005 (Length Code in 32nds of an inch)					A ±.003	B ±.003	C Max.	S ±.003	M Max.	H Nom.
	300 Series Stain- less Steel	400 Series Stainless Steel	Hardened Steel		.125	.188	.250	.312	.375						
	SKCF	SK4F	SKSF		6060	4	6	8	10	12	.099	.177	.212	.068	.108

All dimensions are in millimeters.

Metric	Type			Body Size Sheet Code	Length "L" ±0.13 (Length Code in millimeters)				A ±0.08	B ±0.08	C Max.	S ±0.08	M Max.	H Nom.
	300 Series Stain- less Steel	400 Series Stainless Steel	Hardened Steel											
	SKCF	SK4F	SKSF		61.5	4	6	8	10	2.51	4.5	5.39	1.73	2.75

SKC-F™/SK4-F™ Fastener Dimensional Data



Part Number Designation

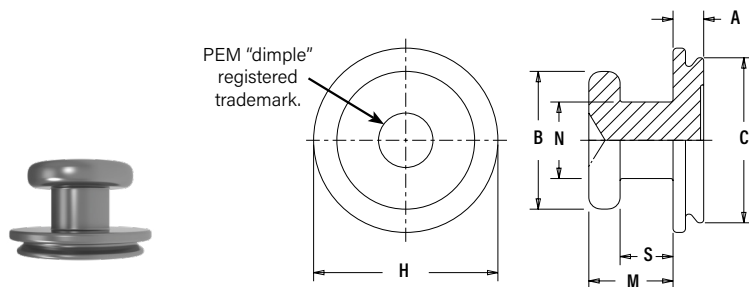
SK	C	-	F	1.5
SK	4	-	F	1.5
↓	↓		↓	↓
Type	Material Code		Face Mounting Designation Code	Sheet Thickness Code

All dimensions are in inches.

Unified	Type		Face Mounting Designation Code	Top Sheet Thickness Code	A Max.	B ± .003	C Max.	H Nom.	M Max.	N ± .003	S ±.003
	300 Series Stainless Steel	400 Series Stainless Steel									
	SKC	SK4									
			F	1.5	.039	.177	.212	.237	.108	.099	.068

All dimensions are in millimeters.

Metric	Type		Face Mounting Designation Code	Top Sheet Thickness Code	A Max.	B ± 0.08	C Max.	H Nom.	M Max.	N ± 0.08	S ±0.08
	300 Series Stainless Steel	400 Series Stainless Steel									
	SKC	SK4			F	1.5	1	4.5	5.39	6.02	2.75

SKCF-F™/SK4F-F™/SKSF-F™/ TSKCF-F™/TSK4F-F™/TSKSF-F™
Fastener Dimensional Data
Part Number Designation


Clinching profile may vary.

SK	C	F	-	F	1.5	
SK	4	F	-	F	1.5	
SK	S	F	-	F	1.5	- ZI
TSK	C	F	-	F	1.5	
TSK	4	F	-	F	1.5	
TSK	S	F	-	F	1.5	- ZI
↓	↓	↓	↓	↓	↓	↓
Type	Material Code	Manufacturing Code	Face Mounting Designation Code	Sheet Thickness Code	Finish	

All dimensions are in inches.

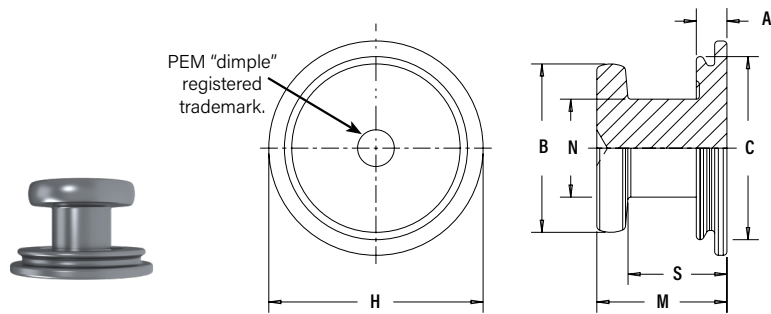
TSK for .032" / 0.8mm thick panels

Unified	Type			Face Mounting Designation Code	Top Sheet Thickness Code	A Max.	B ± .003	C Max.	H Nom.	M Max.	N ± .003	S ±.003
	300 Series Stainless Steel	400 Series Stainless Steel	Hardened Steel									
	SKCF	SK4F	SKSF	F	1.5	.039	.177	.212	.237	.108	.099	.068
	TSKCF	TSK4F	TSKSF	F	1.5	.032	.177	.212	.237	.108	.099	.068

All dimensions are in millimeters.

Metric	Type			Face Mounting Designation Code	Top Sheet Thickness Code	A Max.	B ± 0.08	C Max.	H Nom.	M Max.	N ± 0.08	S ±0.08
	300 Series Stainless Steel	400 Series Stainless Steel	Hardened Steel									
	SKCF	SK4F	SKSF	F	1.5	1	4.5	5.39	6.02	2.75	2.5	1.73
	TSKCF	TSK4F	TSKSF	F	1.5	0.8	4.5	5.39	6.02	2.75	2.5	1.73

SKS-R™, SKC-R™ AND SK4-R™ Fastener Dimensional Data



Part Number Designation

SK	S	-	R	1.5	-	2.5	-	ZI
SK	C	-	R	1.5	-	2.5		
SK	4	-	R	1.5	-	2.5		
↓	↓		↓	↓		↓		↓
Type	Material Code		Face Mounting Designation Code	Top Sheet Thickness Code		Neck Diameter Code		Finish

All dimensions are in inches.

Clinching profile may vary.

Unified	Type Hardened Steel	Face Mounting Designation Code	Top Sheet Thickness Code	Neck Diameter Code	A (Shank) Max.	B ±.003	C Max.	H Nom.	M Max.	N ±.003	S +.003 -.008
	SKS	R	1.5	2.5	.039	.177	.212	.236	.148	.099	.107
				3.2		.217	.235	.276		.126	
				4.0		.256	.275	.307		.157	
Unified	SKS	R	2.0	2.5	.039	.177	.212	.236	.167	.099	.127
				3.2		.217	.235	.276		.126	
				4.0		.256	.275	.307		.157	
Unified	SKS	R	2.5	2.5	.039	.177	.212	.236	.187	.099	.147
				3.2		.217	.235	.276		.126	
				4.0		.256	.275	.307		.157	

All dimensions are in millimeters.

Metric	Type Hardened Steel	Face Mounting Designation Code	Top Sheet Thickness Code	Neck Diameter Code	A (Shank) Max.	B ±0.08	C Max.	H Nom.	M Max.	N ±0.08	S +0.08 -0.21
	SKS	R	1.2	2.5	1	5.5	6	7	3.2	2.5	2.4
	SKS	R	1.5	2.5	1	4.5	5.39	6	3.75	2.5	2.73
				3.2		5.5	5.98	7		3.2	
Metric				4.0		6.5	6.98	7.8		4	
	SKS	R	2.0	2.5	1	4.5	5.39	6	4.25	2.5	3.23
				3.2		5.5	5.98	7		3.2	
				4.0		6.5	6.98	7.8		4	
Metric	SKS	R	2.5	2.5	1	4.5	5.39	6	4.75	2.5	3.73
				3.2		5.5	5.98	7		3.2	
				4.0		6.5	6.98	7.8		4	

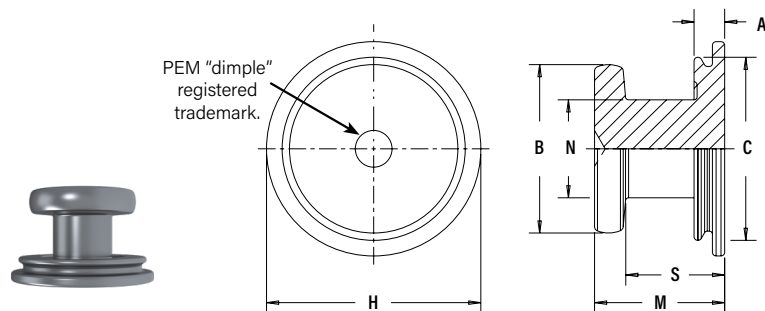
All dimensions are in inches.

Unified	Type		Face Mounting Designation Code	Top Sheet Thickness Code	Neck Diameter Code	A (Shank) Max.	B ±.003	C Max.	H Nom.	M Max.	N ±.003	S ±.003
	300 Series Stainless Steel	400 Series Stainless Steel										
	SKC	SK4	R	1.5	2.5	.039	.177	.236	.276	.148	.099	.107
					3.2		.217	.276	.315		.126	
Unified					4.0		.256	.315	.354		.157	
	SKC	SK4	R	2.0	2.5	.039	.177	.236	.276	.167	.099	.127
					3.2		.217	.276	.315		.126	
					4.0		.256	.315	.354		.157	
Unified	SKC	SK4	R	2.5	2.5	.039	.177	.236	.276	.187	.099	.147
					3.2		.217	.276	.315		.126	
					4.0		.256	.315	.354		.157	

All dimensions are in millimeters.

Metric	Type		Face Mounting Designation Code	Top Sheet Thickness Code	Neck Diameter Code	A (Shank) Max.	B ±0.08	C Max.	H Nom.	M Max.	N ±0.08	S ±0.08
	300 Series Stainless Steel	400 Series Stainless Steel										
	SKC	SK4	R	1.5	2.5	1	4.5	6	7	3.75	2.5	2.73
					3.2		5.5	7	8		3.2	
Metric					4.0		6.5	8	9		4	
	SKC	SK4	R	2.0	2.5	1	4.5	6	7	4.25	2.5	3.23
					3.2		5.5	7	8		3.2	
					4.0		6.5	8	9		4	
Metric	SKC	SK4	R	2.5	2.5	1	4.5	6	7	4.75	2.5	3.73
					3.2		5.5	7	8		3.2	
					4.0		6.5	8	9		4	
Metric	SKSC ⁽¹⁾	—	R	1.5	2.5	1	4.5	5.39	6	3.75	2.5	2.73
				2.0						4.35		3.23

TSKS-R™, TSKC-R™, TSK4-R™, HSKS-R™, HSKC-R™ AND HSK4-R™ Fastener Dimensional Data



Clinching profile may vary.

TSK for .032" / 0.8mm thick panels
HSK for .047" / 1.2mm thick panels

Part Number Designation

TSK	C	-	R	1.5	-	2.5	
TSK	4	-	R	1.5	-	2.5	
TSK	S	-	R	1.5	-	2.5	- ZI
HSK	C	-	R	1.5	-	2.5	
HSK	4	-	R	1.5	-	2.5	
HSK	S	-	R	1.5	-	2.5	- ZI
↓	↓	↓	↓	↓	↓	↓	↓
Type	Material Code		Face Mounting Designation Code	Top Sheet Thickness Code		Neck Diameter Code	Finish

All dimensions are in inches.

Unified	Type			Face Mounting Designation Code	Top Sheet Thickness Code	Neck Diameter Code	A (Shank) Max.	B ±.003	C Max.	H Nom.	M Max.	N ±.003	S ±.003
	Hardened Steel	300 Series Stainless Steel	400 Series Stainless Steel										
	TSKS	TSKC	TSK4										
	TSKS	TSKC	TSK4										
	TSKS	TSKC	TSK4	R	1.5	2.5	.032	.177	.236	.276	.140	.099	.100
	TSKS	TSKC	TSK4	R	2.0	2.5	.032	.177	.236	.276	.159	.099	.119
	TSKS	TSKC	TSK4	R	2.5	2.5	.032	.177	.236	.276	.179	.099	.139

All dimensions are in millimeters.

Metric	Type			Face Mounting Designation Code	Top Sheet Thickness Code	Neck Diameter Code	A (Shank) Max.	B ±0.08	C Max.	H Nom.	M Max.	N ±0.08	S ±0.08
	Hardened Steel	300 Series Stainless Steel	400 Series Stainless Steel										
	TSKS	—	—										
	TSKS	TSKC	TSK4										
	TSKS	—	—	R	1.0	3.0	0.8	5	6	6.5	2.9	3	2.1
	TSKS	TSKC	TSK4	R	1.5	2.5	0.8	4.5	6	7	3.55	2.5	2.53
	TSKS	TSKC	TSK4	R	2.0	2.5	0.8	4.5	6	7	4.05	2.5	3.03
	TSKS	TSKC	TSK4	R	2.5	2.5	0.8	4.5	6	7	4.55	2.5	3.53

All dimensions are in inches.

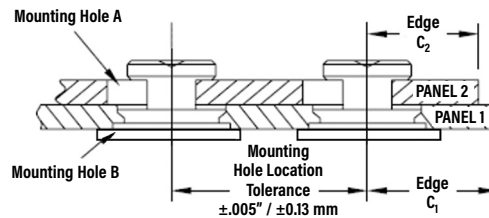
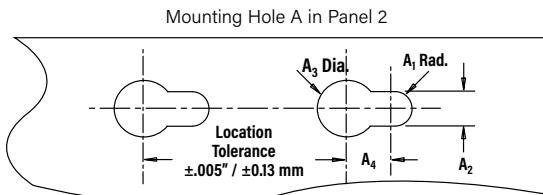
Unified	Type			Face Mounting Designation Code	Top Sheet Thickness Code	Neck Diameter Code	A (Shank) Max.	B ±.003	C Max.	H Nom.	M Max.	N ±.003	S ±.003
	Hardened Steel	300 Series Stainless Steel	400 Series Stainless Steel										
	HSKS	HSKC	HSK4										
	HSKS	HSKC	HSK4										
	HSKS	HSKC	HSK4	R	1.5	2.5	.047	.177	.236	.276	.156	.099	.115
						3.2		.217	.276	.315		.126	
						4.0		.256	.315	.354		.157	
	HSKS	HSKC	HSK4	R	2.0	2.5	.047	.177	.236	.276	.175	.099	.135
						3.2		.217	.276	.315		.126	
						4.0		.256	.315	.354		.157	
	HSKS	HSKC	HSK4	R	2.5	2.5	.047	.177	.236	.276	.198	.099	.155
						3.2		.217	.276	.315		.126	
						4.0		.256	.315	.354		.157	

All dimensions are in millimeters.

Metric	Type			Face Mounting Designation Code	Top Sheet Thickness Code	Neck Diameter Code	A (Shank) Max.	B ±0.08	C Max.	H Nom.	M Max.	N ±0.08	S ±0.08
	Hardened Steel	300 Series Stainless Steel	400 Series Stainless Steel										
	HSKS	—	—										
	HSKS	—	—										
	HSKS	—	—	R	1.0	4.0	1.2	7	8.4	9.4	3.85	4	2.5
	HSKS	—	—	R	1.2	4.0	1.2	7	8	9.5	3.9	4	2.6
	HSKS	HSKC	HSK4	R	1.5	2.5	1.2	4.5	6	7	3.95	2.5	2.93
						3.2		5.5	7	8		3.2	
						4.0		6.5	8	9		4	
	HSKS	HSKC	HSK4	R	2.0	2.5	1.2	4.5	6	7	4.45	2.5	3.43
						3.2		5.5	7	8		3.2	
						4.0		6.5	8	9		4	
	HSKS	HSKC	HSK4	R	2.5	2.5	1.2	4.5	6	7	4.95	2.5	3.93
						3.2		5.5	7	8		3.2	
						4.0		6.5	8	9		4	

Application Data

HHSKS-R™ Fasteners

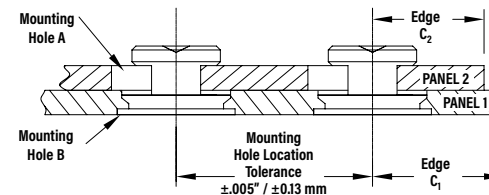
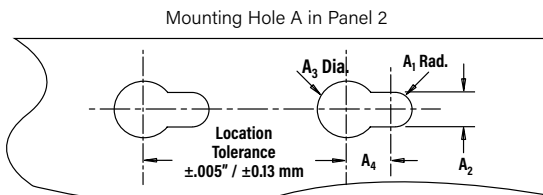


		Panel 1				Panel 2						
Unified	Type	Bottom Mounting Hole B +.003	Sheet Hardness Max. ⁽¹⁾	Sheet Thickness Range	Edge Distance C1 Min. ⁽²⁾	Top Mounting Hole A				Material	Thickness Max.	Edge Distance C2 Min. ⁽²⁾
						A1 Nom.	A2 ±.003	A3 ±.003	A4 Min.			
	HHSKS-R2.2-4.6-ZI	.395	HRB 80 / HB 150	.047 - .053	.394	.100	.201	.374	.280	ANY	.089	.295
	HHSKS-R2.5-4.6-ZI	.395	HRB 80 / HB 150	.079 - .085	.394	.100	.201	.374	.280	ANY	.100	.295

		Panel 1				Panel 2						
Metric	Type	Bottom Mounting Hole B +0.08	Sheet Hardness Max. ⁽¹⁾	Sheet Thickness Range	Edge Distance C1 Min. ⁽²⁾	Top Mounting Hole A				Material	Thickness Max.	Edge Distance C2 Min. ⁽²⁾
						A1 Nom.	A2 ±0.08	A3 ±0.08	A4 Min.			
	HHSKS-R2.2-4.6-ZI	10.02	HRB 80 / HB 150	1.2 - 1.35	10	2.55	5.1	9.5	7.1	ANY	2.25	7.5
	HHSKS-R2.5-4.6-ZI	10.02	HRB 80 / HB 150	2.0 - 2.15	10	2.55	5.1	9.5	7.1	ANY	2.55	7.5

Application Data

DSKS-R™ Fasteners



		Panel 1				Panel 2						
Unified	Type	Bottom Mounting Hole B +.003	Sheet Hardness Max. ⁽¹⁾	Sheet Thickness Range	Edge Distance C1 Min. ⁽²⁾	Top Mounting Hole A				Material	Thickness Max.	Edge Distance C2 Min. ⁽²⁾
						A1 Nom.	A2 ±.003	A3 ±.003	A4 Min.			
		DSKS-R1.0-2.5-ZI	.200	HRB 80 / HB 150	.040 - .047	.217	.059	.118	.197	.148	ANY	.041

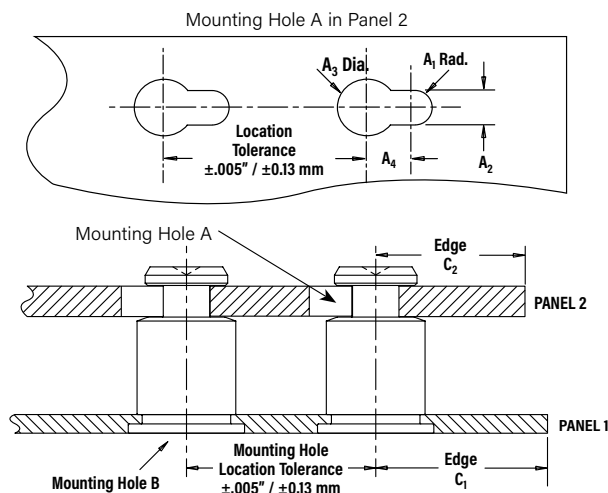
		Panel 1				Panel 2						
Metric	Type	Bottom Mounting Hole B +0.08	Sheet Hardness Max. ⁽¹⁾	Sheet Thickness Range	Edge Distance C1 Min. ⁽²⁾	Top Mounting Hole A				Material	Thickness Max.	Edge Distance C2 Min. ⁽²⁾
						A1 Nom.	A2 ±0.08	A3 ±0.08	A4 Min.			
		DSKS-R1.0-2.5-ZI	5.41	HRB 80 / HB 150	1 - 1.19	5.5	1.5	3	5	3.75	ANY	1.04

(1) HRB - Hardness Rockwell "B" Scale. HB - Hardness Brinell.

(2) For more information on proximity to bends and distance to other clinch hardware, see [PEM® Tech Sheet C/L To Edge](#).

Application Data

SKC™/SK4™/ SKCF™/SK4F™/SKSF™ Standoffs



All dimensions are in inches.

Unified	Type	Panel 1				Panel 2						
		Bottom Mounting Hole B +.003 -.000	Sheet Hardness Max. ⁽¹⁾	Min. Sheet Thickness	Edge Distance C1 Min. ⁽⁴⁾	Top Mounting Hole A				Material	Thickness Range	Edge Distance C2 Min. ⁽⁴⁾
						A1 Nom.	A2 ±.003	A3 ±.003	A4 Min.			
	SKC-6060	.213	HRB 70 / HB 125	.040	.260	.059	.118	.197	.148	ANY	.057 - .064	.160
	SK4-6060	.213	HRB 88 / HB 183	.040	.260	.059	.118	.197	.148	ANY	.057 - .064	.160
	SKCF-6060	.213	HRB 70 / HB 125	.040	.260	.059	.118	.197	.148	ANY	.057 - .064	.160
	SK4F-6060	.213	HRB 88 / HB 183	.040	.260	.059	.118	.197	.148	ANY	.057 - .064	.160
	SKSF-6060	.213	HRB 80 / HB 150	.040	.260	.059	.118	.197	.148	ANY	.057 - .064	.160
	SKC-F1.5	.213	HRB 70 / HB 125	.040 ⁽²⁾	.150	.059	.118	.197	.148	ANY	.057 - .064	.160
	SK4-F1.5	.213	HRB 88 / HB 183	.040 ⁽²⁾	.150	.059	.118	.197	.148	ANY	.057 - .064	.160
	SKCF-F1.5	.213	HRB 70 / HB 125	.040 ⁽²⁾	.150	.059	.118	.197	.148	ANY	.057 - .064	.160
	SK4F-F1.5	.213	HRB 88 / HB 183	.040 ⁽²⁾	.150	.059	.118	.197	.148	ANY	.057 - .064	.160
	SKSF-F1.5	.213	HRB 80 / HB 150	.040 ⁽²⁾	.150	.059	.118	.197	.148	ANY	.057 - .064	.160
	TSKCF-F1.5	.213	HRB 70 / HB 125	.032 ⁽³⁾	.150	.059	.118	.197	.148	ANY	.057 - .064	.160
	TSK4F-F1.5	.213	HRB 88 / HB 183	.032 ⁽³⁾	.150	.059	.118	.197	.148	ANY	.057 - .064	.160
	TSKSF-F1.5	.213	HRB 80 / HB 150	.032 ⁽³⁾	.150	.059	.118	.197	.148	ANY	.057 - .064	.160

All dimensions are in millimeters.

Metric	Type	Panel 1				Panel 2						
		Bottom Mounting Hole B +0.08	Sheet Hardness Max. ⁽¹⁾	Min. Sheet Thickness	Edge Distance C1 Min. ⁽⁴⁾	Top Mounting Hole A				Material	Thickness Range	Edge Distance C2 Min. ⁽⁴⁾
						A1 Nom.	A2 ±0.08	A3 ±0.08	A4 Min.			
	SKC-61.5	5.41	HRB 70 / HB 125	1	6.6	1.5	3	5	3.75	ANY	1.45 - 1.62	4.1
	SK4-61.5	5.41	HRB 88 / HB 183	1	6.6	1.5	3	5	3.75	ANY	1.45 - 1.62	4.1
	SKCF-61.5	5.41	HRB 70 / HB 125	1	6.6	1.5	3	5	3.75	ANY	1.45 - 1.62	4.1
	SK4F-61.5	5.41	HRB 88 / HB 183	1	6.6	1.5	3	5	3.75	ANY	1.45 - 1.62	4.1
	SKSF-61.5	5.41	HRB 80 / HB 150	1	6.6	1.5	3	5	3.75	ANY	1.45 - 1.62	4.1
	TSKSF-61.5	5.41	HRB 80 / HB 150	0.8	5.5	1.5	3	5	3.75	ANY	1.45 - 1.62	4.1
	HSKCF-71.5	6.36	HRB 70 / HB 125	1.5	7.1	1.5	3	4.75	3.63	ANY	1.45 - 1.62	4.1
	SKC-F1.5	5.41	HRB 70 / HB 125	1 ⁽²⁾	3.8	1.5	3	5	3.75	ANY	1.45 - 1.62	4.1
	SK4-F1.5	5.41	HRB 88 / HB 183	1 ⁽²⁾	3.8	1.5	3	5	3.75	ANY	1.45 - 1.62	4.1
	SKCF-F1.5	5.41	HRB 70 / HB 125	1 ⁽²⁾	3.8	1.5	3	5	3.75	ANY	1.45 - 1.62	4.1
	SK4F-F1.5	5.41	HRB 88 / HB 183	1 ⁽²⁾	3.8	1.5	3	5	3.75	ANY	1.45 - 1.62	4.1
	SKSF-F1.5	5.41	HRB 80 / HB 150	1 ⁽²⁾	3.8	1.5	3	5	3.75	ANY	1.45 - 1.62	4.1
	TSKCF-F1.5	5.41	HRB 70 / HB 125	0.8 ⁽³⁾	3.8	1.5	3	5	3.75	ANY	1.45 - 1.62	4.1
	TSK4F-F1.5	5.41	HRB 88 / HB 183	0.8 ⁽³⁾	3.8	1.5	3	5	3.75	ANY	1.45 - 1.62	4.1
	TSKSF-F1.5	5.41	HRB 80 / HB 150	0.8 ⁽³⁾	3.8	1.5	3	5	3.75	ANY	1.45 - 1.62	4.1

(1) HRB - Hardness Rockwell "B" Scale. HB - Hardness Brinell.

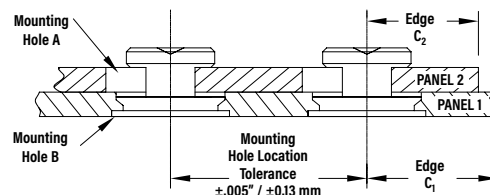
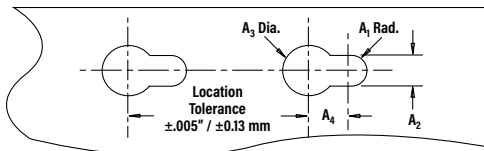
(2) SKC-F™/SK4-F™/ SKCF-F™/SK4F-F™/SKSF-F™ fasteners may also be installed into a .043"/1.1mm minimum depth blind milled hole in a .062"/1.6mm minimum sheet thickness.

(3) TSKCF-F™/TSK4F-F™/TSKSF-F™ fasteners may also be installed into a .035"/0.9mm minimum depth blind milled hole in a .055"/1.4mm minimum sheet thickness.

(4) For more information on proximity to bends and distance to other clinch hardware, see [PEM® Tech Sheet C/L To Edge](#).

Application Data — SKS-R™/SKC-R™/SK4-R™/ TSKS-R™/HSKS-R™/ TSKC-R™/TSK4-R™/HSCC-R™/HSK4-R™ Fasteners

Mounting Hole A in Panel 2



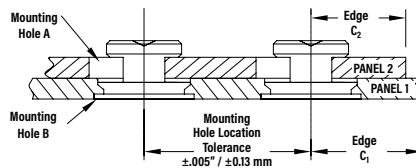
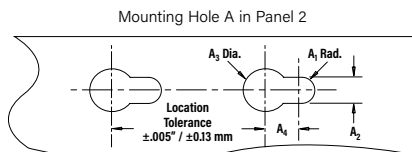
All dimensions are in inches.

Unified	PANEL 1					PANEL 2						
	Type	Bottom Mounting Hole B +.003 -.000	Sheet Hardness Max. (1)	Thickness Range	Edge Distance C ₁ Min. (2)	Top Mounting Hole A				Material	Thickness Max.	Edge Distance C ₂ Min. (2)
						A ₁ Nom.	A ₂ ± .003	A ₃ ± .003	A ₄ Min.			
	SKS-R1.5-2.5-ZI	.213	HRB 80 / HB 150	.040 - .047	.236	.059	.118	.197	.148	ANY	.060	.160
	SKS-R1.5-3.2-ZI	.236	HRB 80 / HB 150	.040 - .047	.236	.073	.146	.236	.181	ANY	.060	.201
	SKS-R1.5-4.0-ZI	.276	HRB 80 / HB 150	.040 - .047	.236	.089	.177	.276	.217	ANY	.060	.240
	SKS-R2.0-2.5-ZI	.213	HRB 80 / HB 150	.040 - .047	.236	.059	.118	.197	.148	ANY	.080	.160
	SKS-R2.0-3.2-ZI	.236	HRB 80 / HB 150	.040 - .047	.236	.073	.146	.236	.181	ANY	.080	.201
	SKS-R2.0-4.0-ZI	.276	HRB 80 / HB 150	.040 - .047	.236	.089	.177	.276	.217	ANY	.080	.240
	SKS-R2.5-2.5-ZI	.213	HRB 80 / HB 150	.040 - .047	.236	.059	.118	.197	.148	ANY	.100	.160
	SKS-R2.5-3.2-ZI	.236	HRB 80 / HB 150	.040 - .047	.236	.073	.146	.236	.181	ANY	.100	.201
	SKS-R2.5-4.0-ZI	.276	HRB 80 / HB 150	.040 - .047	.236	.089	.177	.276	.217	ANY	.100	.240
	SKC-R1.5-2.5	.237	HRB 70 / HB 125	.040 - .047	.276	.059	.118	.197	.148	ANY	.060	.160
	SKC-R1.5-3.2	.277	HRB 70 / HB 125	.040 - .047	.295	.073	.146	.236	.181	ANY	.060	.201
	SKC-R1.5-4.0	.316	HRB 70 / HB 125	.040 - .047	.315	.089	.177	.276	.217	ANY	.060	.240
	SKC-R2.0-2.5	.237	HRB 70 / HB 125	.040 - .047	.276	.059	.118	.197	.148	ANY	.080	.160
	SKC-R2.0-3.2	.277	HRB 70 / HB 125	.040 - .047	.295	.073	.146	.236	.181	ANY	.080	.201
	SKC-R2.0-4.0	.316	HRB 70 / HB 125	.040 - .047	.315	.089	.177	.276	.217	ANY	.080	.240
	SKC-R2.5-2.5	.237	HRB 70 / HB 125	.040 - .047	.276	.059	.118	.197	.148	ANY	.100	.160
	SKC-R2.5-3.2	.277	HRB 70 / HB 125	.040 - .047	.295	.073	.146	.236	.181	ANY	.100	.201
	SKC-R2.5-4.0	.316	HRB 70 / HB 125	.040 - .047	.315	.089	.177	.276	.217	ANY	.100	.240
	SK4-R1.5-2.5	.237	HRB 88 / HB 183	.040 - .047	.276	.059	.118	.197	.148	ANY	.060	.160
	SK4-R1.5-3.2	.277	HRB 88 / HB 183	.040 - .047	.295	.073	.146	.236	.181	ANY	.060	.201
	SK4-R1.5-4.0	.316	HRB 88 / HB 183	.040 - .047	.315	.089	.177	.276	.217	ANY	.060	.240
	SK4-R2.0-2.5	.237	HRB 88 / HB 183	.040 - .047	.276	.059	.118	.197	.148	ANY	.080	.160
	SK4-R2.0-3.2	.277	HRB 88 / HB 183	.040 - .047	.295	.073	.146	.236	.181	ANY	.080	.201
	SK4-R2.0-4.0	.316	HRB 88 / HB 183	.040 - .047	.315	.089	.177	.276	.217	ANY	.080	.240
	SK4-R2.5-2.5	.237	HRB 88 / HB 183	.040 - .047	.276	.059	.118	.197	.148	ANY	.100	.160
	SK4-R2.5-3.2	.277	HRB 88 / HB 183	.040 - .047	.295	.073	.146	.236	.181	ANY	.100	.201
	SK4-R2.5-4.0	.316	HRB 88 / HB 183	.040 - .047	.315	.089	.177	.276	.217	ANY	.100	.240
	TSKS-R1.5-2.5-ZI	.237	HRB 80 / HB 150	.032 - .038	.276	.059	.118	.197	.148	ANY	.060	.160
	TSKS-R2.0-2.5-ZI	.237	HRB 80 / HB 150	.032 - .038	.276	.059	.118	.197	.148	ANY	.080	.160
	TSKS-R2.5-2.5-ZI	.237	HRB 80 / HB 150	.032 - .038	.276	.059	.118	.197	.148	ANY	.100	.160
	HSKS-R1.5-2.5-ZI	.237	HRB 80 / HB 150	.047 - .055	.276	.059	.118	.197	.148	ANY	.060	.160
	HSKS-R1.5-3.2-ZI	.277	HRB 80 / HB 150	.047 - .055	.295	.073	.146	.236	.181	ANY	.060	.201
	HSKS-R1.5-4.0-ZI	.316	HRB 80 / HB 150	.047 - .055	.315	.089	.177	.276	.217	ANY	.060	.240
	HSKS-R2.0-2.5-ZI	.237	HRB 80 / HB 150	.047 - .055	.276	.059	.118	.197	.148	ANY	.080	.160
	HSKS-R2.0-3.2-ZI	.277	HRB 80 / HB 150	.047 - .055	.295	.073	.146	.236	.181	ANY	.080	.201
	HSKS-R2.0-4.0-ZI	.316	HRB 80 / HB 150	.047 - .055	.315	.089	.177	.276	.217	ANY	.080	.240
	HSKS-R2.5-2.5-ZI	.237	HRB 80 / HB 150	.047 - .055	.276	.059	.118	.197	.148	ANY	.100	.160
	HSKS-R2.5-3.2-ZI	.277	HRB 80 / HB 150	.047 - .055	.295	.073	.146	.236	.181	ANY	.100	.201
	HSKS-R2.5-4.0-ZI	.316	HRB 80 / HB 150	.047 - .055	.315	.089	.177	.276	.217	ANY	.100	.240
	TSKC-R1.5-2.5	.237	HRB 70 / HB 125	.032 - .038	.276	.059	.118	.197	.148	ANY	.060	.160
	TSKC-R2.0-2.5	.237	HRB 70 / HB 125	.032 - .038	.276	.059	.118	.197	.148	ANY	.080	.160
	TSKC-R2.5-2.5	.237	HRB 70 / HB 125	.032 - .038	.276	.059	.118	.197	.148	ANY	.100	.160
	HSCC-R1.5-2.5	.237	HRB 70 / HB 125	.047 - .055	.276	.059	.118	.197	.148	ANY	.060	.160
	HSCC-R1.5-3.2	.277	HRB 70 / HB 125	.047 - .055	.295	.073	.146	.236	.181	ANY	.060	.201
	HSCC-R1.5-4.0	.316	HRB 70 / HB 125	.047 - .055	.315	.089	.177	.276	.217	ANY	.060	.240
	HSCC-R2.0-2.5	.237	HRB 70 / HB 125	.047 - .055	.276	.059	.118	.197	.148	ANY	.080	.160
	HSCC-R2.0-3.2	.277	HRB 70 / HB 125	.047 - .055	.295	.073	.146	.236	.181	ANY	.080	.201
	HSCC-R2.0-4.0	.316	HRB 70 / HB 125	.047 - .055	.315	.089	.177	.276	.217	ANY	.080	.240
	HSCC-R2.5-2.5	.237	HRB 70 / HB 125	.047 - .055	.276	.059	.118	.197	.148	ANY	.100	.160
	HSCC-R2.5-3.2	.277	HRB 70 / HB 125	.047 - .055	.295	.073	.146	.236	.181	ANY	.100	.201
	HSCC-R2.5-4.0	.316	HRB 70 / HB 125	.047 - .055	.315	.089	.177	.276	.217	ANY	.100	.240
	TSK4-R1.5-2.5	.237	HRB 88 / HB 183	.032 - .038	.276	.059	.118	.197	.148	ANY	.060	.160
	TSK4-R2.0-2.5	.237	HRB 88 / HB 183	.032 - .038	.276	.059	.118	.197	.148	ANY	.080	.160
	TSK4-R2.5-2.5	.237	HRB 88 / HB 183	.032 - .038	.276	.059	.118	.197	.148	ANY	.100	.160
	HSK4-R1.5-2.5	.237	HRB 88 / HB 183	.047 - .055	.276	.059	.118	.197	.148	ANY	.060	.160
	HSK4-R1.5-3.2	.277	HRB 88 / HB 183	.047 - .055	.295	.073	.146	.236	.181	ANY	.060	.201
	HSK4-R1.5-4.0	.316	HRB 88 / HB 183	.047 - .055	.315	.089	.177	.276	.217	ANY	.060	.240
	HSK4-R2.0-2.5	.237	HRB 88 / HB 183	.047 - .055	.276	.059	.118	.197	.148	ANY	.080	.160
	HSK4-R2.0-3.2	.277	HRB 88 / HB 183	.047 - .055	.295	.073	.146	.236	.181	ANY	.080	.201
	HSK4-R2.0-4.0	.316	HRB 88 / HB 183	.047 - .055	.315	.089	.177	.276	.217	ANY	.080	.240
	HSK4-R2.5-2.5	.237	HRB 88 / HB 183	.047 - .055	.276	.059	.118	.197	.148	ANY	.100	.160
	HSK4-R2.5-3.2	.277	HRB 88 / HB 183	.047 - .055	.295	.073	.146	.236	.181	ANY	.100	.201
	HSK4-R2.5-4.0	.316	HRB 88 / HB 183	.047 - .055	.315	.089	.177	.276	.217	ANY	.100	.240

(1) HRB - Hardness Rockwell "B" Scale. HB - Hardness Brinell.

(2) For more information on proximity to bends and distance to other clinch hardware, see [PEM® Tech Sheet C/L To Edge](#).

Application Data — SKS-R™/SKC-R™/SK4-R™/ TSKS-R™/HSKS-R™/ TSKC-R™/TSK4-R™/HSCC-R™/HSK4-R™ Fasteners



All dimensions are in millimeters.

Metric	PANEL 1					PANEL 2						
	Type	Bottom Mounting Hole B + 0.08	Sheet Hardness Max. (1)	Thickness Range	Edge Distance C ₁ Min. (2)	Top Mounting Hole A				Material	Thickness Max.	Edge Distance C ₂ Min. (2)
						A ₁ Nom.	A ₂ ±0.08	A ₃ ±0.08	A ₄ Min.			
	SKS-R1.2-2.5-ZI	6.02	HRB 80 / HB 150	1-1.19	6	1.5	3	6	4.25	ANY	1.24	5.1
	SKS-R1.5-2.5-ZI	5.41	HRB 80 / HB 150	1-1.19	6	1.5	3	5	3.75	ANY	1.54	4.1
	SKS-R1.5-3.2-ZI	6	HRB 80 / HB 150	1-1.19	6	1.85	3.7	6	4.6	ANY	1.54	5.1
	SKS-R1.5-4.0-ZI	7	HRB 80 / HB 150	1-1.19	6	2.25	4.5	7	5.5	ANY	1.54	6.1
	SKS-R2.0-2.5-ZI	5.41	HRB 80 / HB 150	1-1.19	6	1.5	3	5	3.75	ANY	2.04	4.1
	SKS-R2.0-3.2-ZI	6	HRB 80 / HB 150	1-1.19	6	1.85	3.7	6	4.6	ANY	2.04	5.1
	SKS-R2.0-4.0-ZI	7	HRB 80 / HB 150	1-1.19	6	2.25	4.5	7	5.5	ANY	2.04	6.1
	SKS-R2.5-2.5-ZI	5.41	HRB 80 / HB 150	1-1.19	6	1.5	3	5	3.75	ANY	2.54	4.1
	SKS-R2.5-3.2-ZI	6	HRB 80 / HB 150	1-1.19	6	1.85	3.7	6	4.6	ANY	2.54	5.1
	SKS-R2.5-4.0-ZI	7	HRB 80 / HB 150	1-1.19	6	2.25	4.5	7	5.5	ANY	2.54	6.1
	SKSC-R1.5-2.5	5.41	HRB 70 / HB 125	1-1.19	5.5	1.5	3	5	3.75	ANY	1.54	4.1
	SKSC-R2.0-2.5	5.41	HRB 70 / HB 125	1-1.19	5.5	1.5	3	5	3.75	ANY	2.04	4.1
	SKC-R1.5-2.5	6.02	HRB 70 / HB 125	1-1.19	7	1.5	3	5	3.75	ANY	1.54	4.1
	SKC-R1.5-3.2	7.02	HRB 70 / HB 125	1-1.19	7.5	1.85	3.7	6	4.6	ANY	1.54	5.1
	SKC-R1.5-4.0	8.02	HRB 70 / HB 125	1-1.19	8	2.25	4.5	7	5.5	ANY	1.54	6.1
	SKC-R2.0-2.5	6.02	HRB 70 / HB 125	1-1.19	7	1.5	3	5	3.75	ANY	2.04	4.1
	SKC-R2.0-3.2	7.02	HRB 70 / HB 125	1-1.19	7.5	1.85	3.7	6	4.6	ANY	2.04	5.1
	SKC-R2.0-4.0	8.02	HRB 70 / HB 125	1-1.19	8	2.25	4.5	7	5.5	ANY	2.04	6.1
	SKC-R2.5-2.5	6.02	HRB 70 / HB 125	1-1.19	7	1.5	3	5	3.75	ANY	2.54	4.1
	SKC-R2.5-3.2	7.02	HRB 70 / HB 125	1-1.19	7.5	1.85	3.7	6	4.6	ANY	2.54	5.1
	SKC-R2.5-4.0	8.02	HRB 70 / HB 125	1-1.19	8	2.25	4.5	7	5.5	ANY	2.54	6.1
	SK4-R1.5-2.5	6.02	HRB 88 / HB 183	1-1.19	7	1.5	3	5	3.75	ANY	1.54	4.1
	SK4-R1.5-3.2	7.02	HRB 88 / HB 183	1-1.19	7.5	1.85	3.7	6	4.6	ANY	1.54	5.1
	SK4-R1.5-4.0	8.02	HRB 88 / HB 183	1-1.19	8	2.25	4.5	7	5.5	ANY	1.54	6.1
	SK4-R2.0-2.5	6.02	HRB 88 / HB 183	1-1.19	7	1.5	3	5	3.75	ANY	2.04	4.1
	SK4-R2.0-3.2	7.02	HRB 88 / HB 183	1-1.19	7.5	1.85	3.7	6	4.6	ANY	2.04	5.1
	SK4-R2.0-4.0	8.02	HRB 88 / HB 183	1-1.19	8	2.25	4.5	7	5.5	ANY	2.04	6.1
	SK4-R2.5-2.5	6.02	HRB 88 / HB 183	1-1.19	7	1.5	3	5	3.75	ANY	2.54	4.1
	SK4-R2.5-3.2	7.02	HRB 88 / HB 183	1-1.19	7.5	1.85	3.7	6	4.6	ANY	2.54	5.1
	SK4-R2.5-4.0	8.02	HRB 88 / HB 183	1-1.19	8	2.25	4.5	7	5.5	ANY	2.54	6.1
	TSKS-R1.0-3.0-ZI	6.02	HRB 80 / HB 150	0.8-0.95	6	1.75	3.5	5.5	4.25	ANY	1.04	5.1
	TSKS-R1.5-2.5-ZI	6.02	HRB 80 / HB 150	0.8-0.95	7	1.5	3	5	3.75	ANY	1.54	4.1
	TSKS-R2.0-2.5-ZI	6.02	HRB 80 / HB 150	0.8-0.95	7	1.5	3	5	3.75	ANY	2.04	4.1
	TSKS-R2.5-2.5-ZI	6.02	HRB 80 / HB 150	0.8-0.95	7	1.5	3	5	3.75	ANY	2.54	4.1
	HSKS-R1.0-4.0-ZI	8.42	HRB 80 / HB 150	1.2-1.39	8.4	2.25	4.5	7.5	5.75	ANY	1.04	6.5
	HSKS-R1.5-2.5-ZI	6.02	HRB 80 / HB 150	1.2-1.39	7	1.5	3	5	3.75	ANY	1.54	4.1
	HSKS-R1.5-3.2-ZI	7.02	HRB 80 / HB 150	1.2-1.39	7.5	1.85	3.7	6	4.6	ANY	1.54	5.1
	HSKS-R1.5-4.0-ZI	8.02	HRB 80 / HB 150	1.2-1.39	8	2.25	4.5	7	5.5	ANY	1.54	6.1
	HSKS-R2.0-2.5-ZI	6.02	HRB 80 / HB 150	1.2-1.39	7	1.5	3	5	3.75	ANY	2.04	4.1
	HSKS-R2.0-3.2-ZI	7.02	HRB 80 / HB 150	1.2-1.39	7.5	1.85	3.7	6	4.6	ANY	2.04	5.1
	HSKS-R2.0-4.0-ZI	8.02	HRB 80 / HB 150	1.2-1.39	8	2.25	4.5	7	5.5	ANY	2.04	6.1
	HSKS-R2.5-2.5-ZI	6.02	HRB 80 / HB 150	1.2-1.39	7	1.5	3	5	3.75	ANY	2.54	4.1
	HSKS-R2.5-3.2-ZI	7.02	HRB 80 / HB 150	1.2-1.39	7.5	1.85	3.7	6	4.6	ANY	2.54	5.1
	HSKS-R2.5-4.0-ZI	8.02	HRB 80 / HB 150	1.2-1.39	8	2.25	4.5	7	5.5	ANY	2.54	6.1
	HSKS-R1.2-4.0-ZI	8.02	HRB 80 / HB 150	1.2-1.39	8	2.25	4.5	7.5	5.75	ANY	1.21	6.6
	TSKC-R1.5-2.5	6.02	HRB 70 / HB 125	0.8-0.95	7	1.5	3	5	3.75	ANY	1.54	4.1
	TSKC-R2.0-2.5	6.02	HRB 70 / HB 125	0.8-0.95	7	1.5	3	5	3.75	ANY	2.04	4.1
	TSKC-R2.5-2.5	6.02	HRB 70 / HB 125	0.8-0.95	7	1.5	3	5	3.75	ANY	2.54	4.1
	HSCC-R1.5-2.5	6.02	HRB 70 / HB 125	1.2-1.39	7	1.5	3	5	3.75	ANY	1.54	4.1
	HSCC-R1.5-3.2	7.02	HRB 70 / HB 125	1.2-1.39	7.5	1.85	3.7	6	4.6	ANY	1.54	5.1
	HSCC-R1.5-4.0	8.02	HRB 70 / HB 125	1.2-1.39	8	2.25	4.5	7	5.5	ANY	1.54	6.1
	HSCC-R2.0-2.5	6.02	HRB 70 / HB 125	1.2-1.39	7	1.5	3	5	3.75	ANY	2.04	4.1
	HSCC-R2.0-3.2	7.02	HRB 70 / HB 125	1.2-1.39	7.5	1.85	3.7	6	4.6	ANY	2.04	5.1
	HSCC-R2.0-4.0	8.02	HRB 70 / HB 125	1.2-1.39	8	2.25	4.5	7	5.5	ANY	2.04	6.1
	HSCC-R2.5-2.5	6.02	HRB 70 / HB 125	1.2-1.39	7	1.5	3	5	3.75	ANY	2.54	4.1
	HSCC-R2.5-3.2	7.02	HRB 70 / HB 125	1.2-1.39	7.5	1.85	3.7	6	4.6	ANY	2.54	5.1
	HSCC-R2.5-4.0	8.02	HRB 70 / HB 125	1.2-1.39	8	2.25	4.5	7	5.5	ANY	2.54	6.1
	TSK4-R1.5-2.5	6.02	HRB 88 / HB 183	0.8-0.95	7	1.5	3	5	3.75	ANY	1.54	4.1
	TSK4-R2.0-2.5	6.02	HRB 88 / HB 183	0.8-0.95	7	1.5	3	5	3.75	ANY	2.04	4.1
	TSK4-R2.5-2.5	6.02	HRB 88 / HB 183	0.8-0.95	7	1.5	3	5	3.75	ANY	2.54	4.1
	HSK4-R1.5-2.5	6.02	HRB 88 / HB 183	1.2-1.39	7	1.5	3	5	3.75	ANY	1.54	4.1
	HSK4-R1.5-3.2	7.02	HRB 88 / HB 183	1.2-1.39	7.5	1.85	3.7	6	4.6	ANY	1.54	5.1
	HSK4-R1.5-4.0	8.02	HRB 88 / HB 183	1.2-1.39	8	2.25	4.5	7	5.5	ANY	1.54	6.1
	HSK4-R2.0-2.5	6.02	HRB 88 / HB 183	1.2-1.39	7	1.5	3	5	3.75	ANY	2.04	4.1
	HSK4-R2.0-3.2	7.02	HRB 88 / HB 183	1.2-1.39	7.5	1.85	3.7	6	4.6	ANY	2.04	5.1
	HSK4-R2.0-4.0	8.02	HRB 88 / HB 183	1.2-1.39	8	2.25	4.5	7	5.5	ANY	2.04	6.1
	HSK4-R2.5-2.5	6.02	HRB 88 / HB 183	1.2-1.39	7	1.5	3	5	3.75	ANY	2.54	4.1
	HSK4-R2.5-3.2	7.02	HRB 88 / HB 183	1.2-1.39	7.5	1.85	3.7	6	4.6	ANY	2.54	5.1
	HSK4-R2.5-4.0	8.02	HRB 88 / HB 183	1.2-1.39	8	2.25	4.5	7	5.5	ANY	2.54	6.1

(1) HRB - Hardness Rockwell "B" Scale. HB - Hardness Brinell.

(2) For more information on proximity to bends and distance to other clinch hardware, see [PEM® Tech Sheet C/L To Edge](#).

Material And Finish Specifications

Type	Fastener Materials			Standard Finishes		For Use in Sheet Hardness ⁽¹⁾		
	Hardened Steel	300 Series Stainless Steel	Hardened 400 Series Stainless Steel	Passivated and/or tested per ASTM A380	Zinc Plated per ASTM B633, SC1 (5µm) Type III, Colorless ⁽²⁾	HRB 88 / HB 183 or less	HRB 80 / HB150 or less	HRB 70 / HB 125 or less
HHSKS-R	■				■		■	
DSKS-R	■				■		■	
HSKCF		■		■				■
TSKSF	■				■		■	
SKC		■		■				■
SK4			■	■		■		
SKC-F		■		■				■
SK4-F			■	■		■		
SKC-R		■		■				■
SKSC-R		■		■				■
SK4-R			■	■		■		
SKS-R	■				■		■	
TSKC-R		■		■				■
TSK4-R			■	■		■		
TSKS-R	■				■		■	
HSKS-R	■				■		■	
HSKC-R		■		■				■
HSK4-R			■	■		■		
SKCF-F		■		■				■
SK4F-F			■	■		■		
SKSF-F	■				■		■	
TSKCF-F		■		■				■
TSK4F-F			■	■		■		
TSKSF-F	■				■		■	
SKCF		■		■				■
SK4F			■	■		■		
SKSF	■				■		■	
Part Number Code for Finishes				None	ZI			

(1) HRB - Hardness Rockwell "B" Scale, HB - Hardness Brinell.

(2) See PEM Technical Support section of our web site for related plating standards and specifications.

A Note About 400 Series Fasteners For Stainless Steel Panels

In order for self-clinching fasteners to work properly, the fastener must be harder than the sheet into which it is being installed. In the case of stainless steel panels, fasteners made from 300 Series Stainless Steel do not meet this hardness criteria. It is for this reason that 400 series fasteners (SK4 and SK4-F) are offered. However, while these 400 Series fasteners install and perform well in 300 Series stainless sheets they should not be used if the end product:

- Will be exposed to any appreciable corrosive presence.
- Requires non-magnetic fasteners.
- Will be exposed to any temperatures above 300°F (149°C)

If any of the these are issues, please contact techsupport@pemnet.com for other options.

Installation

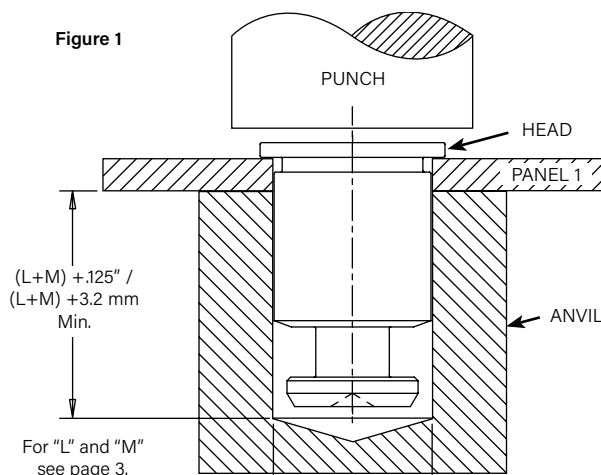
SKC™/SK4™/ SKCF™/SK4F™/SKSF™/HSKCF™/ TSKSF™ Standoffs

1. Prepare properly sized mounting hole in Panel 1.
2. Place the fastener through (punched side of) the mounting hole and into anvil as shown in figure 1.
3. With installation punch and anvil surfaces parallel, apply only enough squeezing force to embed the head flush with the panel.

Installation Tooling ⁽¹⁾

Unified	Body Size Sheet Code	Anvil Dimension (in.)		HAEGER® Part Number		PEMSERTER® Part Number	
		D		Anvil	Punch	Anvil	Punch
	6060	.216		H-109-6/M3.5L	H-108-0020L	970200012300	975200048

Metric	Body Size Sheet Code	Anvil Dimension (mm)		HAEGER® Part Number		PEMSERTER® Part Number	
		D		Anvil	Punch	Anvil	Punch
	61.5	5.49		H-109-6/M3.5L	H-108-0020L	970200012300	975200048
	71.5	6.44		H-109-71.5L	H-108-0020L	8019550	975200048



SKC-F™/SK4-F™/ SKCF-F™/SK4-F™/SKSF-F™/ TSKCF-F™/TSK4-F™/TSKSF-F™ Fasteners

Through Hole Installation Procedure

1. Prepare properly sized mounting hole in Panel 1.
2. Place the fastener into anvil hole as shown in Figure 2.
3. Place the (punch side of) mounting hole over the shank of the fastener.
4. With installation punch and anvil surfaces parallel, apply only enough squeezing force until flange is flush with panel.

Blind Hole Installation Procedure

1. Mill a properly sized blind hole into Panel 1.
2. Place the fastener into anvil hole as shown in Figure 3.
3. Place the panel mounting hole over the shank of the fastener.
4. With installation punch and anvil surfaces parallel, apply only enough squeezing force to embed the flange flush with the panel.

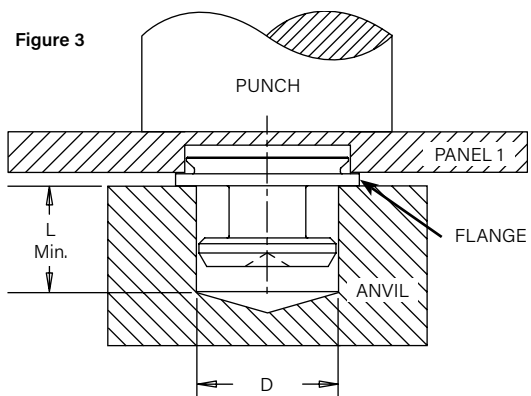
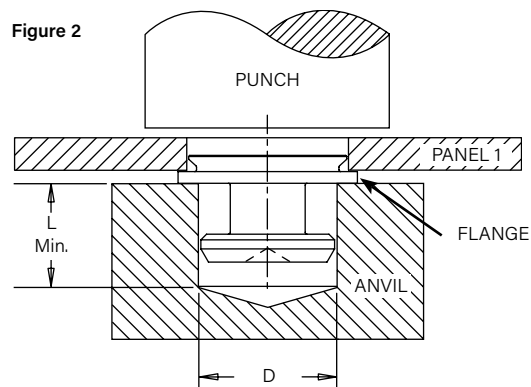
Installation Tooling ⁽¹⁾

Unified	Sheet Thickness Code	Anvil Dimension (in.)		HAEGER® Part Number		PEMSERTER® Part Number	
		L Min	D +.003 -.000	Anvil	Punch	Anvil	Punch
	1.5	.233	.184	H-109-6/F1.5L	H-108-0020L	8012608	975200048

Metric	Sheet Thickness Code	Anvil Dimension (mm)		HAEGER® Part Number		PEMSERTER® Part Number	
		L Min.	D +.08	Anvil	Punch	Anvil	Punch
	1.5	5.95	4.67	H-109-6/F1.5L	H-108-0020L	8012608	975200048

End Mill Information

Double-ended, two-flute H.S.S. center-cutting end mills are available from stock. PennEngineering does not manufacture center-cutting end mills, but we do keep a supply in stock for your convenience.



Fastener Type	Required Size End Mill	PEM Part No.
SKC-F/SK4-F	.213"	CHM-213

**SKS-R™/SKC-R™/SK4-R™/TSKS-R™/HSKS-R™/
TSKC-R™/TSK4-R™/HSKC-R™/HSK4-R™/
SKSC-R™/DSKS-R™ Fasteners**

1. Prepare properly sized mounting hole in Panel 1.
2. Place the fastener through (punch side of) the mounting hole and into anvil as shown.
3. With installation punch and anvil surfaces parallel, apply only enough squeezing force to embed the head flush with the panel.

Installation Tooling ⁽¹⁾

Unified	Neck Diameter Code	Anvil Dimension (in.)	HAEGER® Part Number		PEMSERTER® Part Number	
		D +.003 -.000	Anvil	Punch	Anvil	Punch
	2.5	.183	H-109-R2.5L	H-108-0020L	8026244	975200048
	3.2	.222	H-109-R3.2L	H-108-0020L	8026245	975200048
	4.0	.262	H-109-R4.0L	H-108-0020L	8026246	975200048

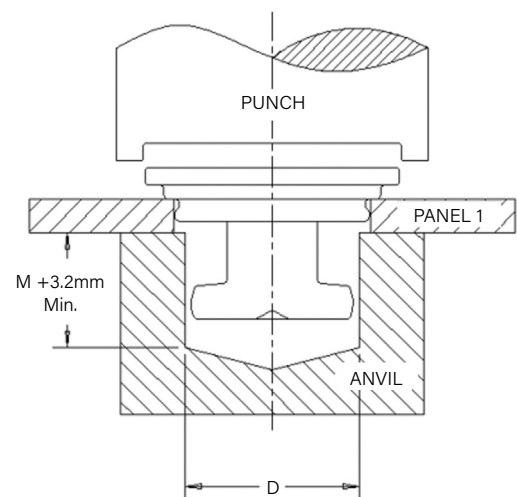
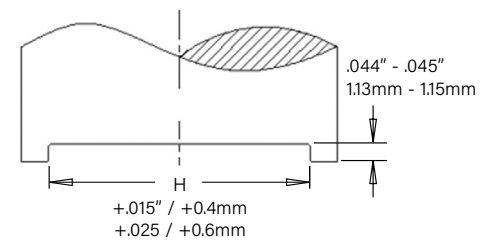
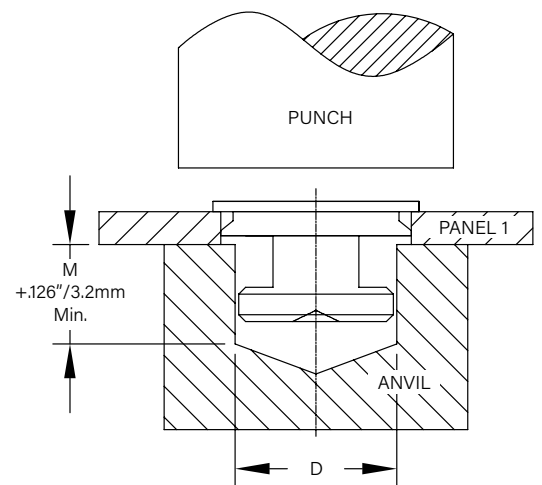
Metric	Neck Diameter Code	Anvil Dimension (mm)	HAEGER® Part Number		PEMSERTER® Part Number	
		D +0.08	Anvil	Punch	Anvil	Punch
	2.5	4.65	H-109-R2.5L	H-108-0020L	8026244	975200048
	3.2	5.65	H-109-R3.2L	H-108-0020L	8026245	975200048
	4.0	6.65	H-109-R4.0L	H-108-0020L	8026246	975200048

Metric	Part Number	Anvil Dimension (mm)	PEMSERTER® Part Number	
		D +0.08	Anvil	Punch
	HSKS-R1.0-4.0-ZI	7.15	8018681	975200048
	TSKS-R1.0-3.0-ZI	5.15	8027330	975200048
	SKS-R1.2-2.5-ZI	5.65	8026245	975200048

HHSKS-R™ Fasteners

1. Prepare properly sized mounting hole in Panel 1.
2. Place the fastener through (punch side of) the mounting hole and into anvil as shown.
3. With installation punch and anvil surfaces parallel, apply only enough squeezing force to embed the head flush with the panel.

Metric	Neck Diameter Code	Anvil Dimension (mm)	HAEGER® Part Number		PEMSERTER® Part Number	
		D +0.08	Anvil	Punch	Anvil	Punch
	4.6	9.15	H-109-HR4.6L	H-198-HR4.6L	8027331	8027332



Installation Notes

- For best results we recommend using a [HAEGER®](#) or [PEMSERTER®](#) machine for installation of PEM® self-clinching fasteners. Please check our website for more information.
- Visit the Animation Library on our website to view the installation process [for select products](#).



For Additional HAEGER® and PEMSERTER® Tooling Information/Part Numbers visit our [tooling wizard](#)



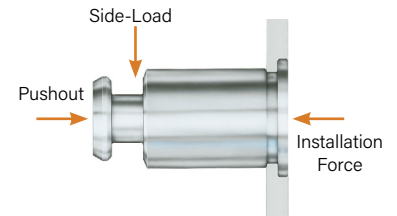
Performance Data⁽¹⁾

SKC™/SK4™ Standoffs

Installation and pushout

Test Sheet Material →		.060" 5052-H34 Aluminum		.060" Cold-Rolled Steel		.060" 300 Series Stainless Steel	
Unified	Body Size - Sheet Code	Installation (lbs.)	Pushout (lbs.)	Installation (lbs.)	Pushout (lbs.)	Installation (lbs.)	Pushout (lbs.)
	SKC-6060	1600	250	3200	600	—	—
	SK4-6060	—	—	—	—	9015	720

Test Sheet Material →		1.52 mm 5052-H34 Aluminum		1.52 mm Cold-Rolled Steel		1.52 mm 300 Series Stainless Steel	
Metric	Body Size - Sheet Code	Installation (kN)	Pushout (N)	Installation (kN)	Pushout (N)	Installation (kN)	Pushout (N)
	SKC-61.5	7.1	1100	14.2	2600	—	—
	SK4-61.5	—	—	—	—	40.1	3200



SKC™/SK4™ Standoffs

Side-load

		Test Sheet Thick. →	.040" ⁽²⁾		.060"										
Unified	Body Size - Sheet Code	Test Sheet Material	Length Codes												
			-2	-4	-6	-8	-10	-12	-14	-16	-18	-20	-24	-28	-32
			Side-Load Force Max. (lbs.)												
	SKC-6060	5052-H34 Aluminum	130	95	82	63	52	44	38	34	30	27	22	19	17
	SKC-6060	Cold-Rolled Steel	185	120	197	153	126	106	92	81	71	66	55	47	42
	SK4-6060	300 Series Stainless Steel	400	300	220	180	160	140	120	110	100	100	80	70	50

		Test Sheet Thick. →	1 mm ⁽²⁾		1.52 mm									
Metric	Body Size - Sheet Code	Test Sheet Material	Length Codes											
			-2	-4	-6	-8	-10	-12	-14	-16	-18	-20	-22	-25
			Side-Load Force Max. (N)											
	SKC-61.5	5052-H34 Aluminum	545	370	296	228	184	156	136	116	104	96	88	76
	SKC-61.5	Cold-Rolled Steel	735	490	696	540	440	372	320	280	252	228	208	184
	SK4-61.5	300 Series Stainless Steel	1690	1140	860	710	610	540	480	440	400	380	320	250

(1) Published installation forces are for general reference. Actual set-up and confirmation of complete installation should be made by observing proper seating of fastener as described in the installation steps. Other performance values reported are averages when all proper installation parameters and procedures are followed. Variations in mounting hole size, sheet material, and installation procedure may affect performance. Performance testing this product in your application is recommended. We will be happy to provide technical assistance and/or samples for this purpose.

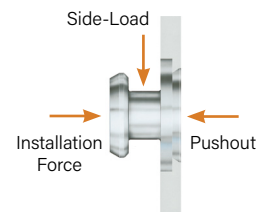
(2) .040" / 1 mm test sheet material thickness was used for the -2 and -4 SKC/SK4 standoffs due to the short length of the parts.

SKC-F™/SK4-F™ Fasteners

Installation, Pushout and Side-load

Test Sheet Material →		.060" 5052-H34 Aluminum			.060" Cold-Rolled Steel			.060" 300 Series Stainless Steel		
Unified	Type	Installation (lbs.)	Pushout (lbs.)	Side-Load Force Max. (lbs.)	Installation (lbs.)	Pushout (lbs.)	Side-Load Force Max. (lbs.)	Installation (lbs.)	Pushout (lbs.)	Side-Load Force Max. (lbs.)
	SKC-F	1100	120	120	2100	160	185	—	—	—
	SK4-F	—	—	—	—	—	—	10210	292	202

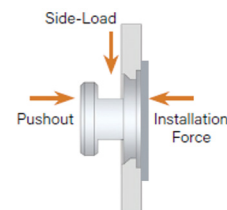
Test Sheet Material →		1.52 mm 5052-H34 Aluminum			1.52 mm Cold-Rolled Steel			1.52 mm 300 Series Stainless Steel		
Metric	Type	Installation (kN)	Pushout (N)	Side-Load Force Max. (N)	Installation (kN)	Pushout (N)	Side-Load Force Max. (N)	Installation (kN)	Pushout (N)	Side-Load Force Max. (N)
	SKC-F	4.9	533	533	9.3	711	822	—	—	—
	SK4-F	—	—	—	—	—	—	45.4	1300	900

**HHSKS-R™ Fasteners**

Installation pushout and side-load

Part No.	Test Sheet Material - .047" / 1.2mm Cold-Rolled Steel HRB 60					
	Installation		Pushout		Side-Load Force Max.	
	(lbs.)	(kN)	(lbs.)	(N)	(lbs.)	(N)
HHSKS-R2.2-4.6-ZI	5000	22.2	225	1000	315	1400

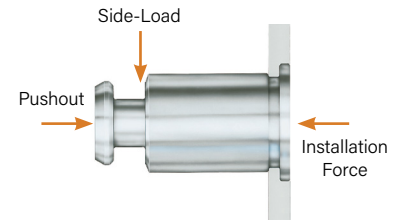
Part No.	Test Sheet Material-.078" / 2mm Cold-Rolled Steel HRB 57					
	Installation		Pushout		Side-Load Force Max.	
	(lbs.)	(kN)	(lbs.)	(N)	(lbs.)	(N)
HHSKS-R2.5-4.6-ZI	5000	22.2	562	2500	337	1500



SKCF™/SK4F™/SKSF™ Standoffs

Installation and pushout

Unified	Part No.	Test Sheet Material			
		.060" Cold-Rolled Steel		.060" 300 Series Stainless Steel	
		Installation (lbs.)	Pushout (lbs.)	Installation (lbs.)	Pushout (lbs.)
	SKCF-6060	3300	450	—	—
	SKSF-6060	3300	450	—	—
	SK4F-6060	—	—	9000	560



Metric	Part No.	Test Sheet Material					
		0.8mm Cold-Rolled Steel HRB 60		1.5mm Cold-Rolled Steel		1.5mm 300 Series Stainless Steel	
		Installation (kN)	Pushout (N)	Installation (kN)	Pushout (N)	Installation (kN)	Pushout (N)
	SKCF-61.5	—	—	14.7	2000	—	—
	SKSF-61.5	—	—	14.7	2000	—	—
	SK4F-61.5	—	—	—	—	40.1	2500
	HSKCF-71.5	—	—	14.7	2000	—	—
	TSKSF-61.5	14.7	810	—	—	—	—

SKCF™/SK4F™/SKSF™ Standoffs

Side-load

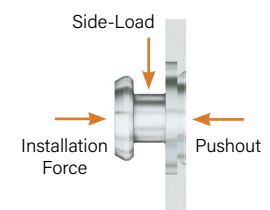
Unified	Part No.	Test Sheet Material	Side Load Force Max. (lbs.)				
			-4	-6	-8	-10	-12
	SKCF-6060	.060" Cold-Rolled Steel	260	197	153	126	106
	SKSF-6060	.060" Cold-Rolled Steel	260	197	153	126	106
	SK4F-6060	.060" 300 Series Stainless Steel	300	220	180	160	140

Metric	Part No.	Test Sheet Material	Side Load Force Max. (N)				
			-4	-5	-6	-8	-10
	SKCF-61.5	1.5mm Cold-Rolled Steel	1000	—	696	540	440
	SKSF-61.5	1.5mm Cold-Rolled Steel	1000	—	696	540	440
	SK4F-61.5	1.5mm 300 Series Stainless Steel	1300	—	860	710	610
	HSKCF-71.5	1.5mm 300 Series Stainless Steel	—	—	600	—	—
	TSKSF-61.5	1.5mm Cold-Rolled Steel	—	400	—	—	—

SKCF-F™/SK4F-F™/SKSF-F™/TSKCF-F™/TSK4F-F™/TSKSF-F™ Fasteners

Installation pushout and side-load

Part No.	Test Sheet Material	Installation		Pushout		Side-Load Force Max.	
		(lbs.)	(kN)	(lbs.)	(N)	(lbs.)	(N)
SKCF-F1.5	.040" / 1mm Cold-Rolled Steel	2518	11.2	160	711	185	822
SKSF-F1.5-ZI	.040" / 1mm Cold-Rolled Steel	2518	11.2	160	711	185	822
SK4F-F1.5	.040" / 1mm 300 Series Stainless Steel	7600	33.8	225	1000	202	900



Part No.	Test Sheet Material	Installation		Pushout		Side-Load Force Max.	
		(lbs.)	(kN)	(lbs.)	(N)	(lbs.)	(N)
TSKCF-F1.5	.032" / 0.8mm Cold-Rolled Steel	2203	9.8	112	500	41	180
TSKSF-F1.5-ZI	.032" / 0.8mm Cold-Rolled Steel	2203	9.8	112	500	41	180
TSK4F-F1.5	.032" / 0.8mm 300 Series Stainless Steel	6789	30.2	169	750	56	250

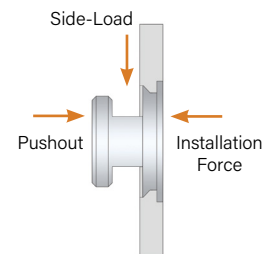
SKS-R™/SKC-R™/SK4-R™/DSKS-R™ Fasteners

Installation pushout and side-load

Part No.	Test Sheet Material - .040" / 1mm Cold-Rolled Steel HRB 67					
	Installation		Pushout		Side-Load Force Max.	
	(lbs.)	(kN)	(lbs.)	(N)	(lbs.)	(N)
SKSC-R1.5-2.5	3300	14.7	160	711	191	850
SKSC-R2.0-2.5	3300	14.7	160	711	169	750
SKC-R1.5-2.5	3507	15.6	180	800	191	850
SKC-R1.5-3.2	4002	17.8	180	800	180	800
SKC-R1.5-4.0	5755	25.6	202	900	169	750
SKC-R2.0-2.5	3507	15.6	180	800	191	850
SKC-R2.0-3.2	4002	17.8	180	800	180	800
SKC-R2.0-4.0	5755	25.6	202	900	169	750
SKC-R2.5-2.5	3507	15.6	180	800	191	850
SKC-R2.5-3.2	4002	17.8	180	800	180	800
SKC-R2.5-4.0	5755	25.6	202	900	169	750

Part No.	Test Sheet Material - .040" / 1mm 300 Series Stainless Steel HRB 88					
	Installation		Pushout		Side-Load Force Max.	
	(lbs.)	(kN)	(lbs.)	(N)	(lbs.)	(N)
SK4-R1.5-2.5	6115	27.2	270	1200	214	950
SK4-R1.5-3.2	6812	30.3	292	1300	202	900
SK4-R1.5-4.0	7419	33	315	1400	191	850
SK4-R2.0-2.5	6115	27.2	270	1200	214	950
SK4-R2.0-3.2	6812	30.3	292	1300	202	900
SK4-R2.0-4.0	7419	33	315	1400	191	850
SK4-R2.5-2.5	6115	27.2	270	1200	214	950
SK4-R2.5-3.2	6812	30.3	292	1300	202	900
SK4-R2.5-4.0	7419	33	315	1400	191	850

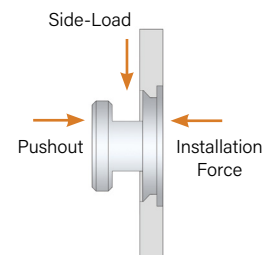
Part No.	Test Sheet Material - .040" / 1mm Cold-Rolled Steel HRB 67					
	Installation		Pushout		Side-Load Force Max.	
	(lbs.)	(kN)	(lbs.)	(N)	(lbs.)	(N)
SKS-R1.2-2.5-ZI	3300	14.7	160	711	182	750
SKS-R1.5-2.5-ZI	3200	14.2	160	711	191	850
SKS-R1.5-3.2-ZI	4000	17.8	180	800	213	950
SKS-R1.5-4.0-ZI	5000	22.3	180	800	258	1150
SKS-R2.0-2.5-ZI	3200	14.2	160	711	169	750
SKS-R2.0-3.2-ZI	4000	17.8	180	800	191	850
SKS-R2.0-4.0-ZI	5000	22.3	180	800	225	1000
SKS-R2.5-2.5-ZI	3200	14.2	160	711	124	550
SKS-R2.5-3.2-ZI	4000	17.8	180	800	137	610
SKS-R2.5-4.0-ZI	5000	22.3	180	800	182	810
DSKS-R1.0-2.5-ZI	3300	14.7	160	711	182	810

**TSKC-R™/TSK4-R™/TSKS-R™ Fasteners**

Installation pushout and side-load

Part No.	Test Sheet Material - .032" / 0.8mm Cold-Rolled Steel HRB 67					
	Installation		Pushout		Side-Load Force Max.	
	(lbs.)	(kN)	(lbs.)	(N)	(lbs.)	(N)
TSKC-R1.5-2.5	2518	11.2	124	550	45	200
TSKC-R2.0-2.5	2518	11.2	124	550	41	180
TSKC-R2.5-2.5	2518	11.2	124	550	34	150

Part No.	Test Sheet Material - .032" / 0.8mm 300 Series Stainless Steel HRB 88					
	Installation		Pushout		Side-Load Force Max.	
	(lbs.)	(kN)	(lbs.)	(N)	(lbs.)	(N)
TSK4-R1.5-2.5	5710	25.4	169	750	68	300
TSK4-R2.0-2.5	5710	25.4	169	750	63	280
TSK4-R2.5-2.5	5710	25.4	169	750	56	250



Part No.	Test Sheet Material - .032" / 0.8mm Cold-Rolled Steel HRB 67					
	Installation		Pushout		Side-Load Force Max.	
	(lbs.)	(kN)	(lbs.)	(N)	(lbs.)	(N)
TSKS-R1.0-3.0-ZI	2518	11.2	124	550	65	290
TSKS-R1.5-2.5-ZI	2518	11.2	124	550	45	200
TSKS-R2.0-2.5-ZI	2518	11.2	124	550	41	180
TSKS-R2.5-2.5-ZI	2518	11.2	124	550	34	150

HSKC-R™/HSK4-R™/HSKS-R™ Fasteners

Installation pushout and side-load

Part No.	Test Sheet Material - .047" / 1.2mm Cold-Rolled Steel HRB 67					
	Installation		Pushout		Side-Load Force Max.	
	(lbs.)	(kN)	(lbs.)	(N)	(lbs.)	(N)
HSKC-R1.5-2.5	4002	17.8	225	1000	202	900
HSKC-R1.5-3.2	5013	22.3	247	1100	191	850
HSKC-R1.5-4.0	5508	24.5	270	1200	180	800
HSKC-R2.0-2.5	4002	17.8	225	1000	202	900
HSKC-R2.0-3.2	5013	22.3	247	1100	191	850
HSKC-R2.0-4.0	5508	24.5	270	1200	180	800
HSKC-R2.5-2.5	4002	17.8	225	1000	202	900
HSKC-R2.5-3.2	5013	22.3	247	1100	191	850
HSKC-R2.5-4.0	5508	24.5	270	1200	180	800

Part No.	Test Sheet Material - .047" / 1.2mm 300 Series Stainless Steel HRB 88					
	Installation		Pushout		Side-Load Force Max.	
	(lbs.)	(kN)	(lbs.)	(N)	(lbs.)	(N)
HSK4-R1.5-2.5	7194	32	315	1400	225	1000
HSK4-R1.5-3.2	7868	35	337	1500	214	950
HSK4-R1.5-4.0	9442	42	337	1500	202	900
HSK4-R2.0-2.5	7194	32	315	1400	225	1000
HSK4-R2.0-3.2	7868	35	337	1500	214	950
HSK4-R2.0-4.0	9442	42	337	1500	202	900
HSK4-R2.5-2.5	7194	32	315	1400	225	1000
HSK4-R2.5-3.2	7868	35	337	1500	214	950
HSK4-R2.5-4.0	9442	42	337	1500	202	900

Part No.	Test Sheet Material - .047" / 1.2mm Cold-Rolled Steel HRB 67					
	Installation		Pushout		Side-Load Force Max.	
	(lbs.)	(kN)	(lbs.)	(N)	(lbs.)	(N)
HSKS-R1.0-4.0-ZI	5508	24.5	270	1200	225	1000
HSKS-R1.5-2.5-ZI	4002	17.8	225	1000	202	900
HSKS-R1.5-3.2-ZI	5013	22.3	247	1100	191	850
HSKS-R1.5-4.0-ZI	5508	24.5	270	1200	180	800
HSKS-R2.0-2.5-ZI	4002	17.8	225	1000	202	900
HSKS-R2.0-3.2-ZI	5013	22.3	247	1100	191	850
HSKS-R2.0-4.0-ZI	5508	24.5	270	1200	180	800
HSKS-R2.5-2.5-ZI	4002	17.8	225	1000	202	900
HSKS-R2.5-3.2-ZI	5013	22.3	247	1100	191	850
HSKS-R2.5-4.0-ZI	5508	24.5	270	1200	180	800

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North America: Danboro, Pennsylvania USA | E-mail: info@pemnet.com | Tel: +1-215-766-8853 | 800-237-4736 (USA)

Europe: Galway, Ireland | E-mail: europe@pemnet.com | Tel: +353-91-751714

Asia/Pacific: Singapore | E-mail: singapore@pemnet.com | Tel: +65-6-745-0660

Kunshan, China: E-mail: salesgreaterchina@pemnet.com | Tel: +86-0512-57269630

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