STUDCO

Studwelding & Stud Supplies

Stud and Ferrule Catalogue

Stud Welding and Engineered Fastening Solutions, **Australia Wide**

Contents

Australia's largest Studwelding supplier and installer.

General Material Specifications

Material

Weld studs are available in a range of materials. On request, the properties of each material can be documented via a raw material test report (MTC). All StudCo weld studs are manufactured from materials specifically selected for stud welding applications..

Non-alloy structural steel welding studs are made of low carbon steel. Low Carbon Steel weld studs are available in ASTM Al08 / A29, Grade Cl0l0 to Cl020, Ql95, Q235, Q345,08A,15AL, SWRCH15A and SWRCH18A are commonly used raw materials. For threaded studs, pins, tapping studs and similar products, we guarantee mechanical properties in accordance with EN ISO 898-1, property class 4.8. The dimensions and design of our standard products comply with EN ISO 13918/ AWS D1.1.

In Stainless Steel, ASTM A-276 / A-493 Grades 304, 309, 310, 316L, 316Ti, 410 are options. Stainless steel threaded weld studs are typically stocked in Grades 304 and 316L.

Material Specifications

StudCo's studs may be made of one of the following materials, as specified on individual specification sheets. Certificates of chemical analysis and physical properties are available, upon request. All physical and chemical properties are independent of stud size or shape.

Mild Steel

StudCo's studs may be made of one of the following materials, as specified on individual specification sheets. Certificates of chemical analysis and physical properties are available, upon request. All physical and chemical properties are independent of stud size or shape.

Mild Steel Chemical Composition

Element	Minimum wt%	Maximum wt%
C	0.08	0.23
Mn	0.3	0.9
P	–	0.04
S	–	0.05

Stainless Steel

Standard StudCo studs manufactured of stainless steel conform to ASTM A276 or A493 specifications. Studs can be manufactured from other weldable stainless-steel alloys. Mechanical properties of StudCo stainless steel studs depend on the cold working or heat treatment applied to the studs after forming. Stainless steel studs can be annealed, upon request.

Stainless Steel Chemical Composition

Element	UNS 30430 (302HQ)		UNS 30403 (304L)		UNS 31603 (316L)	
	Min wt%	Max wt%	Min wt%	Max wt%	Min wt%	Max wt%
C	–	0.08	–	0.03	–	0.03
Cr	17	19	18	20	16	18
Ni	8	10	8	12	10	14
Mn	–	2	–	2	–	2
Cu	3	4	–	–	–	–

Mechanical Properties - Metric

Minimum Values	Mild Steel Shear & Concrete Anchors	Standard Mild Steel Studs	Stainless Steel Studs, as formed
	EN ISO 13918	EN ISO 13918	EN ISO 13918
Ultimate Tensile (MPa), Rm	450	420	482
Yield, 0.2% offset (MPa), Re	350	337	241
% Elongation, A5, in 2" gage length	20	17	40
% Area Reduction (min)	50	50	N/A

In Aluminum. 5A03 is common material (most for CD or short cycle weld studs).

Element	Capacitor Discharge Only[1]	
	Alloy 5a03	
	Min wt%	Max wt%
Al	93.75	93.75
Cr	–	–
Cu	–	0.1
Mn	0.3	0.6
Si	0.5	0.8
Fe	–	0.5
Si+Fe	N/A	N/A
Zn	–	0.2
Mg	3.2	3.8
Ti	–	0.15

Surface treatment

Copper, zinc and nickel plating are the most common surface treatments. Please contact us regarding alternative finishes.

Mechanical Properties

Mechanical Characteristic	Test	Reference standard		
		Threaded studs		Unthreaded
		Carbon steel and alloy steel	Stainless steel	Studs
Elongation Tensile strength Yield strength Shear strength	Tensile test	ISO 898-1	ISO 3506-1	ISO 6892
Symbol	Material group/ Property class	Standard	Mechanical properties of the finished stud	
PD RD	4.8	ISO 898-1	See ISO 898-1	
UD ID	A2-50, A2-70, A4-50, A4-70, A5-50, A5-70	ISO 3506-1	See ISO 3506-1	
SD1	Material group 1 with the limits: C ≤ 0,2 % a CEV ≤ 0,35 a Al ≥ 0,02 % a, b	ISO/TR 15608	R_m ≥ 450 N/mm$_2$ R_{eH} ≥ 350 N/mm$_2$ A_5 ≥ 15 % R_m = 400 N/mm2 to 550 N/mm$_2$	
SD2			R_{eH} ≥ 235 N/mm$_2$ $R_{p0,2}$ ≥ 235 N/mm$_2$ A_5 ≥ 20 %	
SD3	1.4301 1.4303	EN 10088-1	R = m p0,2 A5 ≥	500 N/mm2 to 780 N/mm2 ≥ 350 N/mm2 25%
PS US	4.8	ISO 898-1	See ISO 898-1	
IS	A2-50	ISO 3506-1	See ISO 3506-1	
PT	4.8	ISO 898-1	See ISO 898-1	
	A2-50	ISO 3506-1	See ISO 3506-1	
UT	CuZn37	EN 12166	R m ≥ 370 N/mm2	
	1050A	EN 573-3	R m ≥ 100 N/mm2	
IT	5754	EN 1301-2	R m ≥ 230 N/mm2	

1. Values from the ladle analysis. **2.** If other elements for killing are used, they shall be reported in the inspection document.

Cold Heading

Process

Cold forming is the primary manufacturing process used by StudCo to produce stud welded fasteners. Using advanced cold heading equipment, StudCo also manufactures an extensive range of custom cold-formed, non-welded components designed to meet specific customer requirements. StudCo manufactures a wide range of cold-formed components and custom profiles. If you are currently purchasing cold-formed or screw-machined parts, StudCo may be able to offer cost savings and quality improvements.

To determine whether cold forming may benefit your application, consider the following criteria:

StudCo's Capabilities

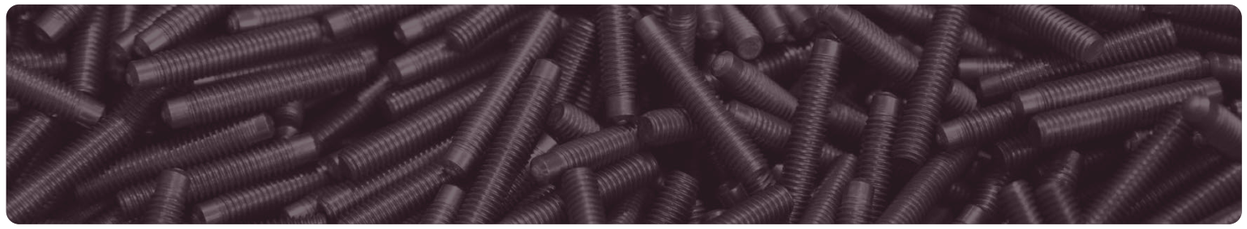
Is StudCo's Cold Forming capability right for your application? **It may be if:**

- Your part is 25mm in diameter or less, and the shank diameter is 25mm or less, and the length is less than 330mm
- Your part is assembled from several components
- Your annual part volume is 100,000 pieces or more
- You currently experience substantial material waste
- You require closer tolerances
- You need greater process control capability (higher CPK)
- You require greater part strength and/or an improved surface finish
- You have not shopped your part cost in several years
- Wire diameter ranging from 2mm through 26mm
- Upset forming diameters up to 225% of wire diameter
- Cut-off length up to 330mm
- Up to five dies and hammers can be used to progressively form complex shapes
- Upsets, forward and backward extrusions, punched and through holes, flanges, collars, heads, and other forming techniques can be accommodated
- Production rates from 45 to 450 pieces per minute
- Complete secondary operations
- In-house tool and die design and fabrication

Submit the following information for a free quote:

- Part drawing with critical dimensions
- Order quantity and annual volume
- A sample of the part you are currently purchasing
- Your target pricing

The stud end configuration (including chamfer, concentricity and manufacturer's identification) of studs and pins will be selected at our discretion, based on production requirements.



Threads

Standard external and internal threads are metric and manufactured prior to plating. Other threads are available upon request. Standard thread length is 75mm. Longer thread lengths may be ordered. Whenever possible, threads are cold-rolled. The surface quality and strength of rolled threads is greatly improved compared to cut threads. The surface finish on rolled threads is less subject to wear and offers more corrosion resistance than cut threads.

Flux

Flux quality and quantity are an essential factor for obtaining consistent weld results. All standard StudCo weld studs 16mm in diameter and larger are supplied with a solid flux load. Rectangular studs up to 24mm are supplied without flux.

Plating

Plating is useful to increase a stud's corrosion resistance. Unless otherwise specified at the time of order, all StudCo studs will be supplied un-plated. Upon request, the following types of surface protection are available: Zinc Plating, Copper Plating, Nickel Plating. Zinc plating will adversely affect the weld quality. For this reason, the weld ends of stud weld studs are not plated.

Annealing

StudCo studs can be post annealed for low carbon steel and stainless steel. An extra charge is applicable for annealing and will be quoted if specified at the time of order.

Ferrules

For weld integrity, certain stud types must be welded using a ceramic ferrule. Appropriate ceramic ferrules are included in the stud purchase price. Ferrules will be shipped with studs, when required. Ferrules required for specialised welding applications should be specified at the time of ordering.

General Stud Specifications

Accessories

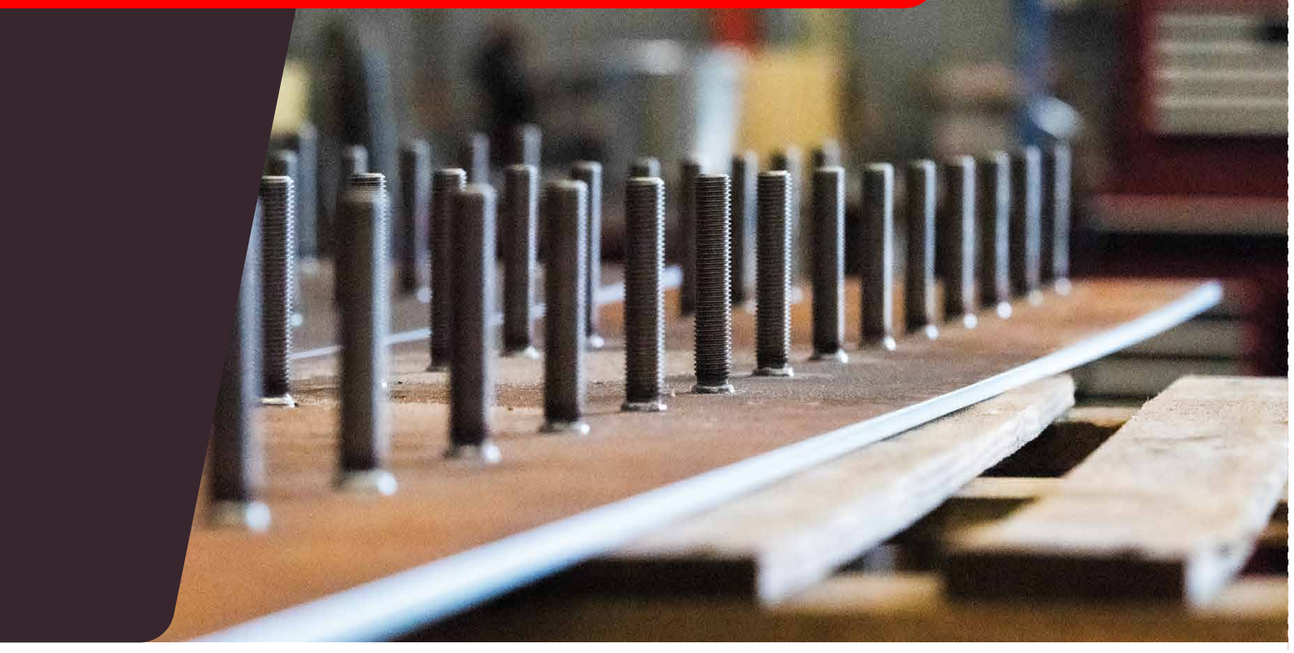
Accessories depend on the stud type, diameter, length, and the ferrule being used, along with any specific fixturing or job conditions or restrictions. For accessory information, please refer to the stud, ferrule, and accessory specifications.

Weld Flash

When a stud is end-welded, weld metal forms around its base. The weld flash dimension is controlled by the design of the ferrule used. The diameter of the weld metal is generally larger than the diameter of the stud. Consideration is required in the design of mating parts that involve weld flash. Refer to the appropriate stud specification sheets for recommended weld flash clearance hole diameters.

Ordering

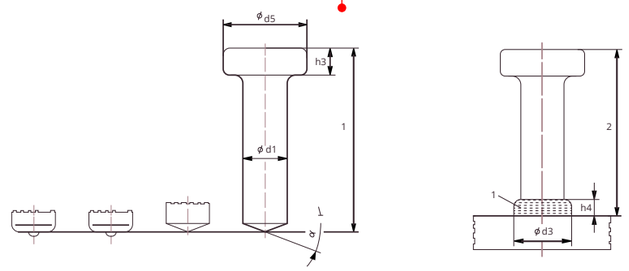
Each stud ordered from StudCo should be listed separately along with the appropriate ferrule. The stud style should be specified as well as the length, diameter, material, quantity, and any other information according to the stud specification sheet. Your StudCo representative will be happy to advise you on the accessories required for welding the stud ordered and is also available to aid in determining the proper stud for your application requirements.



Shear Connector (SD)

Standard: We can produce studs to many national standards including but not limited to GB-T10433, AWS D1.1, AWS.D1.5, BS 5400, AS NZ1554.2 Only ENISO13918 and ASNZ1554.2 standards are listed below.

ENISO 13918 Drawing



Before welding **After welding**

Key

1 weld collar
A shape A of tip (example)
B shape B of tip (example)

Table 10 – Dimensions of shear connectors (SD) with / 2 according to Table A.4

Dimensions in millimetres

d 1 – 0,4a, e	9.5	10	12.7	13	16	19	22	25	25.4
d 5 ± 0,3	19		25		32d	32	35	40	41
d 3c	13		17		21	23	29	31	31
h 3 **1** **– 0,5**	7		8		8	10	10	12	12
h 4c	2.5		3		4.5	6	6	7	7
α ± 2,5°	22,5°		22,5°		22,5°	22,5°	22,5°	22,5°	22,5°
/ 1 ± 1,5	/ 2b, c + 3		/ 2b, c + 3		/ 2b, c + 4	/ 2b, c + 4,5	/ 2b, c + 5	/ 2b, c + 5,5	/ 2b, c + 5,5

a. Excess diameter or production impressions in the shaft area below the head are permitted up to 0,5 mm, provided they do not affect proper plunge.

b. Tolerance on l2 is +1 -2 mm.

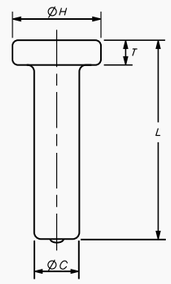
c. For special conditions, e.g. through-deck stud welding, the dimensions and the tolerances are not applicable.

d. May be reduced to 29 mm for shear application.

e. Use of the optional dimension depends on national regulations.

ASNZ 1554.2 Standard drawing

Raw material, standard, Mechanical Properties of shear connectors.



Shank diameter (C)		Length (L) tolerance	Head diameter (H)		Min head height (T)
12.7	+0.00 -0.25	+1.6	25.4	+0.4	7.1
15.9	+0.00 -0.25	+1.6	31.7	+0.4	7.1
19.0	+0.00 -0.38	+1.6	31.7	+0.4	9.5
22.2	+0.00 -0.38	+1.6	34.9	+0.4	9.5

Note: L = manufactured length before welding.

Material	LOW CARBON STEEL AS1445 S1010 to S1020, Swrch15a, Swrch18a, Astm a108, Grade 1010-1020	
Standard	–	AS NZ 1554.2	EN ISO 13918
Mechanical	Tensile	410MPa (min)	450MPa (min)
Properties	Yield	345MPa (min)	350MPa (min)
Elongation	–	12%	15%
Reduction of area	–	50% (min)	50% (min)

Stud types		Code (ceramic ferrule)	Materials	Standards	Mechanical Characteristics
Drawn arc stud welding with ceramic ferrule or shielding gas	Threaded stud	PD (PF)	Steel (4.8) blank	EN 20898-1 ISO 898-1	Rm ≥ 420 N/mm2 ReH ≥ 340 N/mm2 A5 ≥ 14%
	Threaded stud with reduced shaft	RD (RF)	1.4301/03 (A2-50)	EN ISO 3506-1	Rm ≥ 500 N/mm2 Rpo.2 ≥ 210 N/mm2 AL ≥ 0,6d
	Pin	UD (UF)			
	Concrete anchor	SD (UF)	Steel blank (S235J2G3 + C450)	EN 10025 ISO/ TR 15608	Rm ≥ 450 N/mm2 ReH ≥ 350 N/mm2, A5 ≥ 15%
			1.4301/03	EN 10088-1	Rm ≥ 540-780 N/mm2 Rp0.2 ≥ 350 N/mm2

SD diameter mm	Welding time (s)	Welding current (A)	Arc length (mm)	Outer pin (mm)
10	0.25	0.77	2,0	3,0
13	0.4	0.95	3,0	3,0
16	0.5	1.45	3,5	3,0
19	0.7	1.65	4,0	3,0
22	0.8	2	4,5	4,0
25	1	2.3	5,0	4,5

Shear Stud Specifications

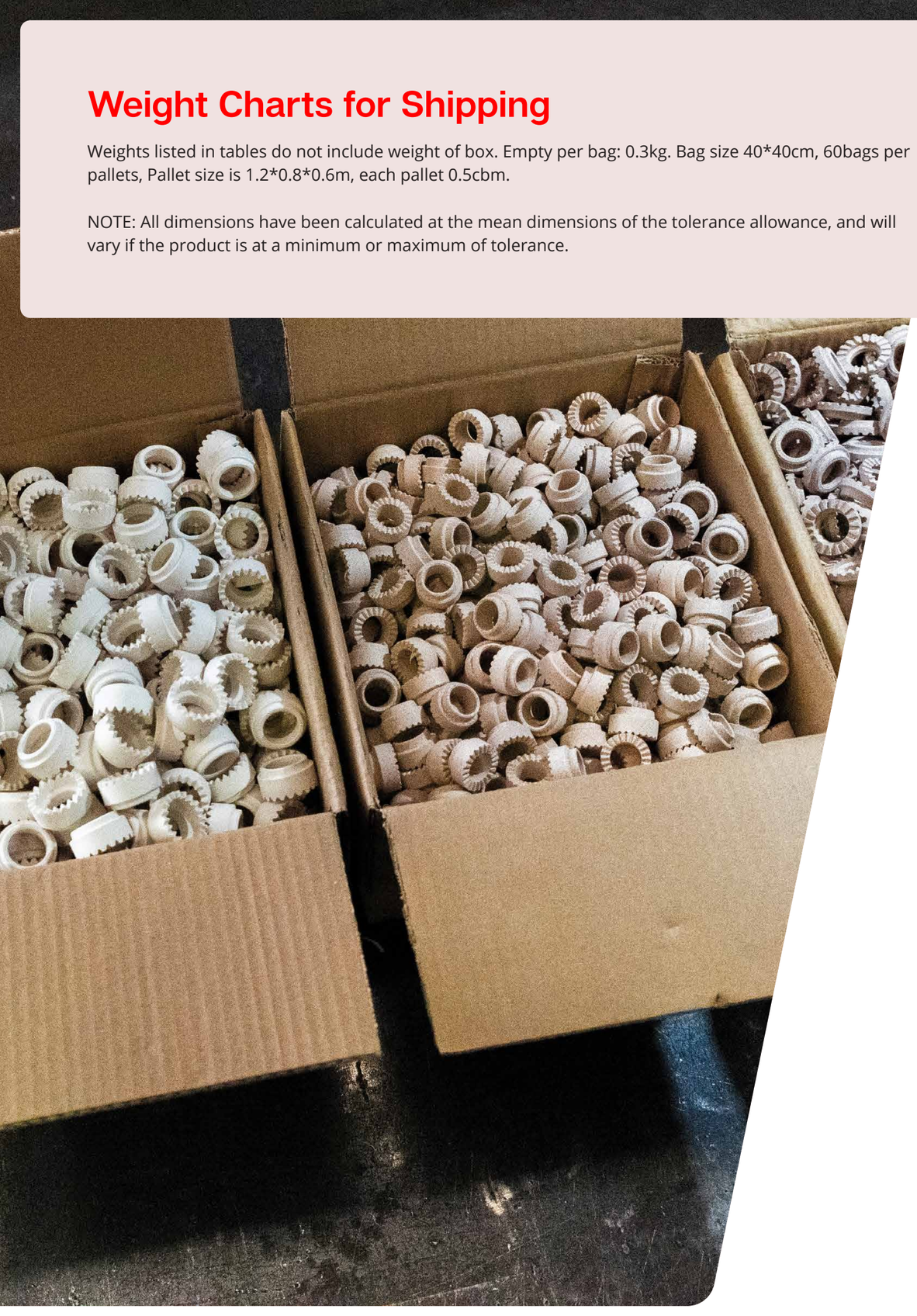
d1=diameter, l2=length after welding (mm), shear stud standard: EN ISO 13918 or AS NZ1554.2.

d	l2	Stud per bag	Bag per pallet	Stud per pallet	Weight per Stud/kg	Weight per Bag/kg	Weight per pallet	Part Numbers	Ceramic
10	50	350	60	21000	0.0422	14.77	886.2	6060010050	UF 10, ANGLE
10	75	250	60	15000	0.0567	14.175	850.5	6060010075	UF 10, ANGLE
10	100	200	60	12000	0.0712	14.24	854.4	6060010100	UF 10, ANGLE
13	50	200	60	12000	0.075	15	900	6060013050	UF 13, VF13
13	75	150	60	9000	0.099	14.85	891	6060013075	UF 13, VF13
13	100	100	60	6000	0.124	12.4	744	6060013100	UF 13, VF13
13	125	100	60	6000	0.15	15	900	6060013125	UF 13, VF13
13	150	80	60	4800	0.173	13.84	830.4	6060013150	UF 13, VF13
13	175	60	60	3600	0.199	11.94	716.4	6060013175	UF 13, VF13
16	50	150	60	9000	0.118	17.7	1062	6060016050	UF 16,VF16,UF16T
16	75	100	60	6000	0.159	15.9	954	6060016075	UF 16,VF16,UF16T
16	100	75	60	4500	0.197	14.775	886.5	6060016100	UF 16,VF16,UF16T
16	125	75	60	4500	0.237	17.775	1066.5	6060016125	UF 16,VF16,UF16T
16	150	60	60	3600	0.276	16.56	993.6	6060016150	UF 16,VF16,UF16T
16	175	40	60	2400	0.308	12.32	739.2	6060016175	UF 16,VF16,UF16T
16	200	30	60	1800	0.345	10.35	621	6060016200	UF 16,VF16,UF16T
16	225	30	60	1800	0.382	11.46	687.6	6060016225	UF 16,VF16,UF16T
16	250	30	60	1800	0.419	12.57	754.2	6060016250	UF 16,VF16,UF16T
19	50	100	60	6000	0.154	15.4	924	6060019050	UF 19,VF19,UF19T
19	75	70	60	4200	0.21	14.7	882	6060019075	UF 19,VF19,UF19T
19	90	60	60	3600	0.242	14.52	871.2	6060019090	UF 19,VF19,UF19T
19	95	60	60	3600	0.252	15.12	907.2	6060019095	UF 19,VF19,UF19T
19	100	60	60	3600	0.267	16.02	961.2	6060019100	UF 19,VF19,UF19T
19	115	50	60	3000	0.277	13.85	831	6060019115	UF 19,VF19,UF19T
19	125	50	60	3000	0.322	16.1	966	6060019125	UF 19,VF19,UF19T
19	150	40	60	2400	0.378	15.12	907.2	6060019150	UF 19,VF19,UF19T
19	175	40	60	2400	0.426	17.04	1022.4	6060019175	UF 19,VF19,UF19T
19	200	30	60	1800	0.49	14.7	882	6060019200	UF 19,VF19,UF19T
19	225	30	60	1800	0.554	16.62	997.2	6060019225	UF 19,VF19,UF19T
19	250	30	60	1800	0.602	18.06	1083.6	6060019250	UF 19,VF19,UF19T
19	275	25	60	1500	0.65	16.25	975	6060019275	UF 19,VF19,UF19T
19	300	25	60	1500	0.698	17.45	1047	6060019300	UF 19,VF19,UF19T
19	325	25	60	1500	0.746	18.65	1119	6060019325	UF 19,VF19,UF19T
22	50	60	60	3600	0.199	11.94	716.4	6060022050	UF 22,VF22,UF22T
22	75	60	60	3600	0.272	16.32	979.2	6060022075	UF 22,VF22,UF22T
22	100	40	60	2400	0.355	14.2	852	6060022100	UF 22,VF22,UF22T
22	125	40	60	2400	0.43	17.2	1032	6060022125	UF 22,VF22,UF22T
22	150	30	60	1800	0.503	15.09	905.4	6060022150	UF 22,VF22,UF22T
22	175	25	60	1500	0.571	14.275	856.5	6060022175	UF 22,VF22,UF22T
22	200	25	60	1500	0.634	15.85	951	6060022200	UF 22,VF22,UF22T
22	225	20	60	1200	0.697	13.94	836.4	6060022225	UF 22,VF22,UF22T
22	250	20	60	1200	0.765	15.3	918	6060022250	UF 22,VF22,UF22T
22	275	20	60	1200	0.833	16.66	999.6	6060022275	UF 22,VF22,UF22T
22	300	15	60	900	0.901	13.515	810.9	6060022300	UF 22,VF22,UF22T
22	325	15	60	900	0.969	14.535	872.1	6060022325	UF 22,VF22,UF22T
25	85	40	60	2400	0.41	16.4	984	6060025085	UF 25,VF25,UF25T
25	100	30	60	1800	0.466	13.98	838.8	6060025100	UF 25,VF25,UF25T
25	125	30	60	1800	0.56	16.8	1008	6060025125	UF 25,VF25,UF25T
25	150	25	60	1500	0.654	16.35	981	6060025150	UF 25,VF25,UF25T
25	175	20	60	1200	0.748	14.96	897.6	6060025175	UF 25,VF25,UF25T
25	200	20	60	1200	0.842	16.84	1010.4	6060025200	UF 25,VF25,UF25T
25	225	20	60	1200	0.936	18.72	1123.2	6060025225	UF 25,VF25,UF25T
25	250	15	60	900	1.03	15.45	927	6060025250	UF 25,VF25,UF25T
25	275	15	60	900	1.124	16.86	1011.6	6060025275	UF 25,VF25,UF25T
25	300	15	60	900	1.218	18.27	1096.2	6060025300	UF 25,VF25,UF25T
25	325	10	60	600	1.312	13.12	787.2	6060025325	UF 25,VF25,UF25T
25	350	10	60	600	1.406	14.06	843.6	6060025350	UF 25,VF25,UF25T

Weight Charts for Shipping

Weights listed in tables do not include weight of box. Empty per bag: 0.3kg. Bag size 40*40cm, 60bags per pallets, Pallet size is 1.2*0.8*0.6m, each pallet 0.5cbm.

NOTE: All dimensions have been calculated at the mean dimensions of the tolerance allowance, and will vary if the product is at a minimum or maximum of tolerance.



General Arc Stud Specifications

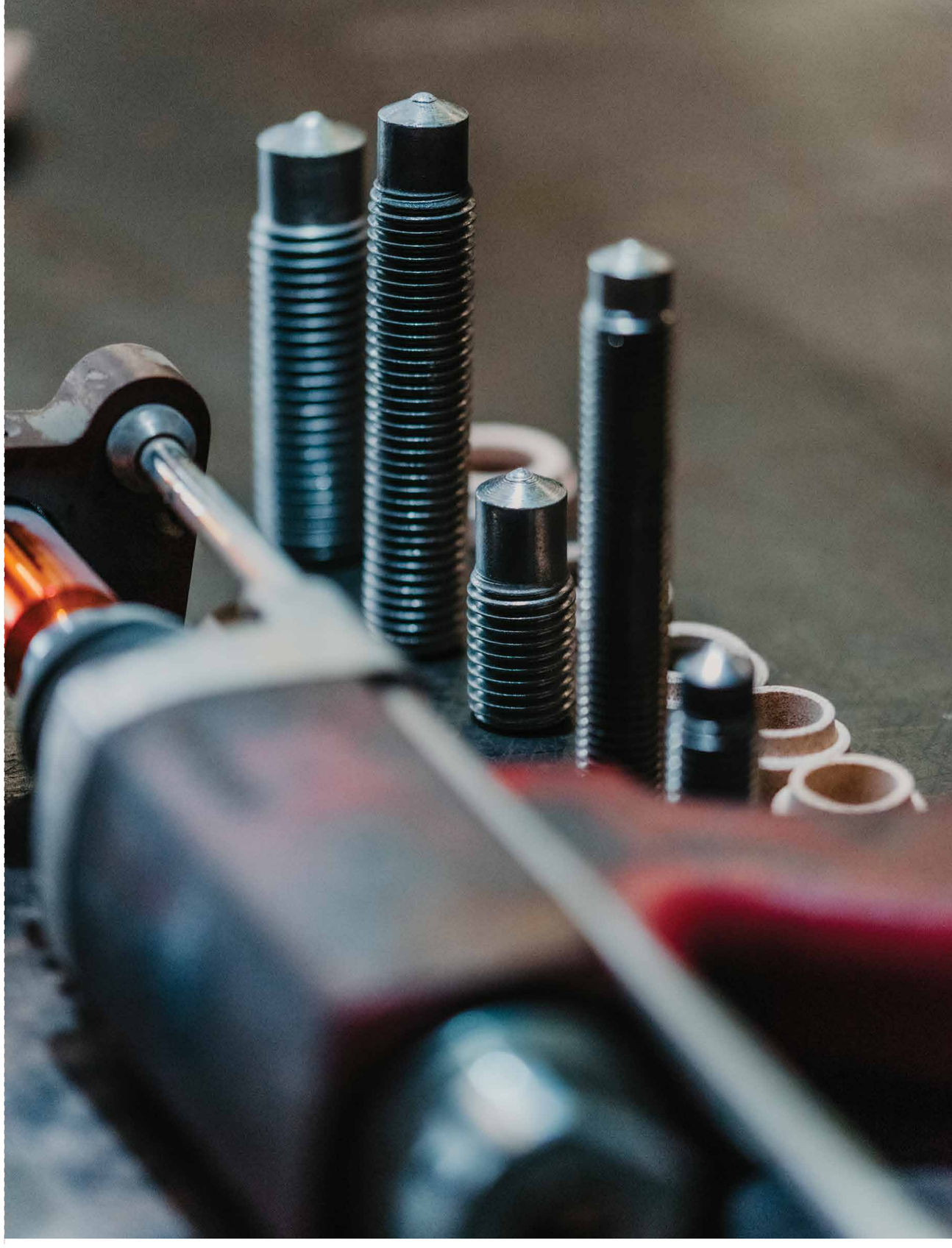
Full thread arc studs, reduced base arc studs, part thread arc studs, internally threaded studs, plain studs. Below is reduced base arc studs, other sizes or type available on request. Stainless steel arc studs also can production as request.

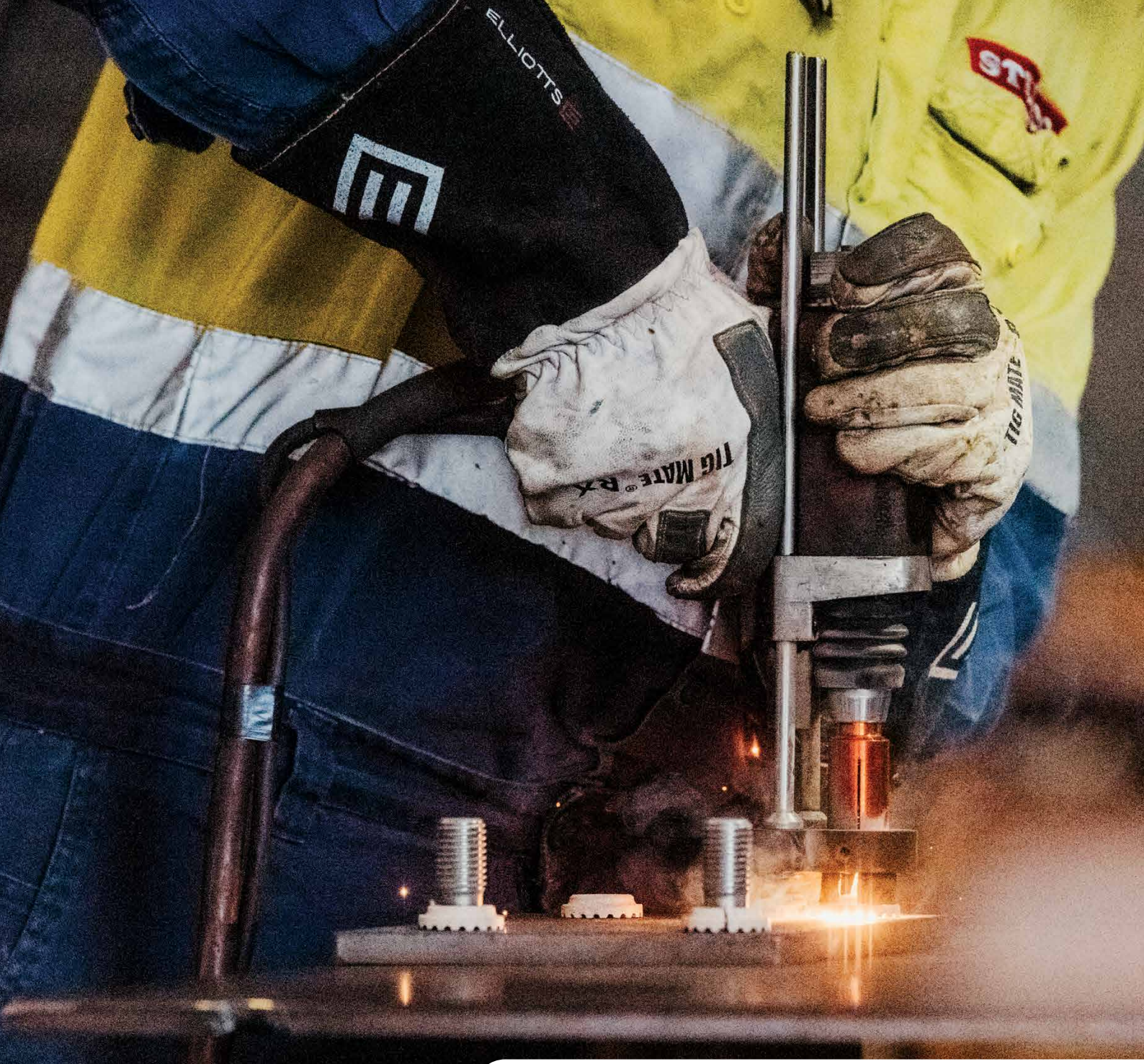
d	l2	Stud per bag	Bag per pallet	Stud per pallet	Weight per Stud/kg	Weight per Bag/kg	Weight per pallet	Part Numbers	Ceramic
M6	20	2000	60	120000	0.005	10.00	600	3030006020	RF6
M6	30	2000	60	120000	0.006	12.00	720	3030006030	RF6
M6	40	2000	60	120000	0.008	16.00	960	3030006040	RF6
M6	50	2000	60	120000	0.010	20.00	1200	3030006050	RF6
M8	25	1000	60	60000	0.010	10.00	600	3030008025	RF8
M8	30	1000	60	60000	0.012	12.00	720	3030008030	RF8
M8	40	1000	60	60000	0.015	15.00	900	3030008040	RF8
M8	50	1000	60	60000	0.018	18.00	1080	3030008050	RF8
M10	25	500	60	30000	0.015	7.50	450	3030010025	RF10
M10	30	500	60	30000	0.018	9.00	540	3030010030	RF10
M10	35	500	60	30000	0.020	10.00	600	3030010035	RF10
M10	40	500	60	30000	0.023	11.50	690	3030010040	RF10
M10	50	500	60	30000	0.028	14.00	840	3030010050	RF10
M12	25	500	60	30000	0.019	9.50	570	3030012025	RF12
M12	30	500	60	30000	0.026	13.00	780	3030012030	RF12
M12	35	500	60	30000	0.029	14.50	870	3030012035	RF12
M12	40	500	60	30000	0.033	16.50	990	3030012040	RF12
M12	45	400	60	24000	0.036	14.40	864	3030012045	RF12
M12	50	400	60	24000	0.040	16.00	960	3030012050	RF12
M12	60	400	60	24000	0.047	18.80	1128	3030012060	RF12
M16	25	400	60	24000	0.034	13.60	816	3030016025	RF16
M16	30	300	60	18000	0.040	12.00	720	3030016030	RF16
M16	35	300	60	18000	0.046	13.80	828	3030016035	RF16
M16	40	300	60	18000	0.052	15.60	936	3030016040	RF16
M16	45	300	60	18000	0.059	17.70	1062	3030016045	RF16
M16	50	250	60	15000	0.065	16.25	975	3030016050	RF16
M16	55	250	60	15000	0.072	18.00	1080	3030016055	RF16
M16	60	200	60	12000	0.079	15.80	948	3030016060	RF16
M16	65	200	60	12000	0.084	16.80	1008	3030016065	RF16
M16	75	150	60	9000	0.096	14.40	864	3030016075	RF16
M16	90	150	60	9000	0.113	16.95	1017	3030016090	RF16
M16	100	100	60	6000	0.130	13.00	780	3030016100	RF16
M16	120	100	60	6000	0.157	15.70	942	3030016120	RF16
M20	35	200	60	12000	0.078	15.6	936	3030020035	RF20
M20	40	200	60	12000	0.088	17.6	1056	3030020040	RF20
M20	45	150	60	9000	0.098	14.7	882	3030020045	RF20
M20	50	150	60	9000	0.108	16.2	972	3030020050	RF20
M20	55	150	60	9000	0.118	17.7	1062	3030020055	RF20
M20	60	150	60	9000	0.128	19.2	1152	3030020060	RF20
M20	65	100	60	6000	0.138	13.8	828	3030020065	RF20
M20	75	100	60	6000	0.158	15.8	948	3030020075	RF20
M20	90	80	60	4800	0.188	15.04	902.4	3030020090	RF20
M20	100	80	60	4800	0.208	16.64	998.4	3030020100	RF20
M20	120	70	60	4200	0.248	17.36	1041.6	3030020120	RF20
M20	130	70	60	4200	0.268	18.76	1125.6	3030020130	RF20
M24	35	120	60	7200	0.113	13.56	813.6	3030024035	RF24
M24	40	120	60	7200	0.127	15.24	914.4	3030024040	RF24
M24	50	120	60	7200	0.155	18.6	1116	3030024050	RF24
M24	55	120	60	7200	0.169	20.28	1216.8	3030024055	RF24
M24	60	100	60	6000	0.183	18.3	1098	3030024060	RF24
M24	65	100	60	6000	0.198	19.8	1188	3030024065	RF24
M24	70	100	60	6000	0.212	21.2	1272	3030024070	RF24
M24	75	100	60	6000	0.225	22.5	1350	3030024075	RF24
M24	80	70	60	4200	0.24	16.8	1008	3030024080	RF24
M24	90	60	60	3600	0.271	16.26	975.6	3030024090	RF24
M24	100	60	60	3600	0.302	18.12	1087.2	3030024100	RF24

General insulation nail specifications and common size and weight table

Insulation Pin Type	Quantity Per Carton
Cup head pin 2mm, head 30mm, all lengths	5,000
Cup head pin 2mm, head 38mm, all lengths	5,000
Cup head pin 2.7mm, head 38mm, all lengths	2,500
Cup head pin 3.4mm, head 38mm, all lengths	2,500
50*50mm Rectangular Speed Clip	5,000
25*32mm Rectangular Speed Clip	5,000
38*38mm Square Speed Clip	3,000
38*38mm Round Speed Clip	5,000
64*64mm Square Speed Clip	1,000

Name	Spec	Qty (ctns)	Qty (pcs)	Kg/carton	Total Qty (pcs)	N.w(kg)
CHP pin	2.7*30*48mm	100	1000	5.1	100000	510
	2.7*30*72mm	100	1000	6.2	100000	620
Perforated pin	2.7*50*30mm	100	500	6.5	50000	650
	2.7*50*45mm	100	500	6.9	50000	690
	2.7*50*63mm	100	500	7.25	50000	725
	2.7*50*115mm	100	500	9	50000	900
Self-Adhesive pin	2.7*50*30mm	100	500	7.45	50000	745
	2.7*50*30mm	100	500	7.45	50000	745
	2.7*50*45mm	100	500	7.8	50000	780
	2.7*50*115mm	100	500	9.5	50000	950
	2.7*50*100mm	100	500	9.27	50000	927
	2.7*50*63mm	100	500	8.4	50000	840
	2.7*50*63mm	100	500	8.4	50000	840
Washer	38*38mm	100	1500	6.64	150000	664





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